ARCHITECTURAL IRON WORKS.

NEW-YORK.

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Md

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ILLUSTRATIONS

OF

IRON ARCHITECTURE,

MADE BY

THE ARCHITECTURAL IRON WORKS OF THE CITY OF NEW YORK.

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IRON ARCHITECTURE:

ITS ORIGIN, ADVANTAGES, AND VARIETY.

THE ARCHITECTURAL IRON WORKS OF THE CITY OF NEW YORK,

The publishers of this volume, in presenting it to the public, consider it not inappropriate to give a brief account of the introduction of Iron Architecture in this country, setting forth, at the same time, some of the reasons for the superiority of Iron as a building material, and enumerating some of the many forms and uses to which it has been already applied.

It is well known that Iron has been used in England and other European countries for *interior* supports in various kinds of edifices, in the form of columns, beams, etc.; but its introduction for the *exterior* of buildings is believed to be of purely *American* invention, and of very recent origin.

The first person who practically used Iron as a building material for the exterior was Daniel D. Badger, the President of the Architectural Iron Works.

In the year 1842, Mr. Badger erected, in the city of Boston, the first structure of Iron ever seen in America. The columns and lintels of the first story were of this material, but the prevailing prejudice against this bold innovation was so great that he was not permitted to engage in the work until he had given an ample guaranty that, if it should not prove a success, he would remove it at his own expense.

All the Iron Buildings in this country have been erected since that period, and owe their existence to that humble introduction.

During the following year, A. L. Johnson, of Baltimore, brought to the notice of Mr. Badger his invention of Rolling Iron Shutters. For the purpose of using these shutters, it became necessary to construct the first stories of stores of Iron pillars and hollow posts. At once the superiority of the "Badger Fronts" (as they were then called), in all buildings where large and attractive show windows were desirable, was universally conceded, prejudice began

to yield, the manufacture increased, and step by step new and more complete and elaborate designs and improvements came into being, until at last, Iron Architecture became legitimately tested and established.

Mr. Badger transferred the manufacture from Boston to New York, but in a short time it became evident, from the increasing demand for his structures, that greater facilities for their preparation were needed, and the foundation was laid for the present extensive works of this Corporation, situated on Thirteenth and Fourteenth Streets, between Avenues B and C.

Previous to Mr. Badger's introduction of Iron as a building material for exteriors, it is well known that the late Cyrus Alger, Esq., of Boston, had, about the year 1830, made plans and contemplated the erection of an Iron Dwelling House, and that he frequently had stated his conviction of its practicability, and expressed his belief that Iron would in time be adopted as the best material for first-class buildings, on account of its durability and of the beautiful forms of which it was capable, and even upon the consideration of its economy.

It is also known that about the time of Mr. Badger's introduction of this species of building in Boston, one William V. Picket published a volume in London, which he styled "A New System of Architecture, founded on the Forms of Nature, and developing the Properties of Metals."

In the preface to that volume he considered "The Capability of Metallic Bodies for the Realization of Peculiar Beauty," and set forth the value of Iron in Civil as well as Naval Architecture, on account of its "strength, durability, non-combustion, economy of space, facility of construction, and general comfort and convenience, combined with cheapness," and stated his belief that these properties would recommend the application of Iron "in the erection of dwellings and other buildings on land."

The allusion to this work of Mr. Picket is made not for the purpose of elucidating the principles of Architecture laid down by him, for his ideas would be deemed crude at the present time, but simply with the design of showing how recently the subject was regarded as so *novel* as to be claimed as a "New System of Architecture," requiring time for its introduction. Mr. Picket's work was purely theoretical, and we claim, therefore, that for the use of Iron in a practical form the world is largely indebted to Mr. Badger, who may justly be regarded as the inventor and pioneer of Iron Architecture in this country.

That a great change has been wrought in public opinion on this subject since the year 1842 will be evident when the fact is stated that it was with extreme difficulty that owners of property could, at the outset, be induced to employ Iron; the prevalent opinion being that it could not have sufficient strength to support a superstructure unless it was cast solid, and quite as cumbrous as stone, in which case its cost would have been an insuperable objection.

But, by the perseverance of years, this objection and all others were overcome, all prejudices were removed, and to day the practicability of the use of Iron for all kinds of structures is no longer doubted, even by those who were once the most skeptical.

Among those properties of Iron which commend it to more general use as a building material we may mention the following:

STRENGTH.

The established superiority of Iron in this regard now requires no argument. We may safely affirm that no substance, available for building purposes, has such closeness of texture, or is equally capable of resisting immense pressure.

The great strength of Iron secures another requisite in building, namely:

LIGHTNESS OF STRUCTURE.

A light and ornamental edifice of Iron may safely be substituted for the cumbrous structures of other substances, and sufficient strength be secured without the exclusion of the light—which is often highly desirable both for mercantile and mechanical purposes.

Combined with this we may mention

FACILITY OF ERECTION.

Nearly all the work of an Iron structure can be previously prepared and fitted in the foundry and finishing departments, and thence transferred to the place of erection and put together with rapidity and security. In some kinds of structures the facility of erection approaches the incredible.

As has been already mentioned, Iron is capable of all forms of

ARCHITECTURAL BEAUTY.

It must be evident that whatever architectural forms can be carved or wrought in wood or stone, or other materials, can also be faithfully reproduced in iron. Besides, iron is capable of finer sharpness of outline, and more elaborate ornamentation and finish; and it may be added that it is not so liable to disintegration, by exposure to the elements, as other substances.

To this capability of beauty we may add that of

ECONOMY OR CHEAPNESS.

The cost of highly-wrought and beautiful forms in stone or marble, executed with the chisel, is often fatal to their use; but they may be executed in Iron at a comparatively small outlay, and thus placed within the reach of those who desire to gratify their own love of art, or cultivate the public taste.

It may also be stated that no other material is so valuable for rebuilding, as Iron always has a market value, and may be recast into new forms, and adapted to new uses. Those who study economy in building should have regard to the permanence of the structure and intrinsic value of the materials, as well as the prime cost of erection.

In an eminent degree Iron possesses the property of

DURABILITY.

It may be safely affirmed that no material employed for building has such indestructibility as Iron, and none can so successfully resist the wasting influences of the elements. It is also invaluable because of its

INCOMBUSTIBILITY.

As a resistant of fire, Iron is unequaled. Wherever it is used, the cost of insurance against fire will be materially reduced; and it must be evident that by its use a building may be made absolutely fire-proof. We shall have a better claim to be considered a civilized people when we protect ourselves from the ravages of fire as well as lightning, and erect private and public buildings which are incombustible.

Destructive conflagrations in crowded cities are often arrested by fire-proof buildings, which serve as absolute barriers to the farther progress of the devouring element.

To the catalogue of the excellencies of Iron as a building material may be added its capability of

RENOVATION.

The durability of an Iron structure is such that if it becomes defaced by exposure or age, it can easily be restored to its pristine beauty by a coating of paint, and, on account of its non-absorbent surface, at less expense than structures of wood or other materials. The color also may from time to time be changed at the will of the owner.

The Illustrations contained in the present volume will show the manifold purposes for which Iron has been applied as a building material, and also exhibit the high degree of architectural beauty which has already been attained.

Special reference to the numerous plates will show that a large number of

FIRST-CLASS STORES

In the cities of New York, Brooklyn, Philadelphia, Boston, Baltimore, New Orleans, Charleston, Mobile, Memphis, Chicago, and in fact in all large cities and towns, have their fronts built of Iron, ornamented in the most elaborate and varied styles of Architecture—the doors and windows of which are protected by the universally approved

FIRE AND BURGLAR-PROOF IRON ROLLING SHUTTERS.

These patented Shutters have been extensively used and thoroughly tested for a period of years throughout the country.

The style of Shutters made and introduced by the Architectural Iron Works is considered

superior to any other in point of construction as well as price. The gearing is simple, durable, and not liable to derangement. Reference to Plates Nos. 29, 69, and 71, will show the construction and finish in detail.

It may be added that the demand for these Shutters has been so great that this Company is provided with the most complete and elaborate machinery for their speedy manufacture.

Special attention is called to the use of iron for the construction of completely fire-proof buildings to be occupied as

MANUFACTORIES,

In which strength, solidity, light, and ornament may be combined, and where the necessity of insurance against fire may be obviated. In all large cities such buildings should abound.

On pages 4, 5, and 6, will be found representations of a building of this class, situated on Mott Street, between Broome and Spring Streets, New York. This building, which was erected for I. M. Singer & Co., is six stories in height, with basement and cellar, and is throughout completely fire-proof.

An inspection of this building is needful to give an adequate idea of the solidity of its structure, and of its peculiar fitness for a manufactory.

The protection of life and property afforded by buildings of this class is alone a sufficient warrant for the slightly increased cost of their construction.

Iron has also been successfully used in the erection of

GRAIN WAREHOUSES.

The amount of the annual losses of grain and warehouse property by fire almost transcends belief. The ordinary storehouses are built wholly or in part of wood, and from certain well-known causes are peculiarly combustible, and liable to rapid decay. Such liabilities are entirely removed by the use of Iron.

The first Iron building of this character was erected in Brooklyn, for "The United States Warehousing Company."

The diagrams on pages 60, 61, and 62 will show that this structure was intended to be used for elevating, transferring, and storing grain, and protecting it against fire.

In the building referred to, the Bins, which are cylindrical, are made like boilers, of riveted plate iron; indeed, the entire structure is absolutely fire-proof and indestructible. Besides these advantages, the grain is secured from the ravages of animals and insects, and also protected from heating by arrangements made for its drying and ventilation. This single feature of ventilation is invaluable, as it will save thousands of bushels of grain which for the want of proper cooling would have to be sent to the malter's at ruinous prices. The construction of Grain Bins of this character is secured to this Corporation by letters patent.

By reference to page 12, it will be seen that Iron has been successfully used for the building of

ARSENALS

For storing Arms and Ammunition. The first building of this kind was erected in West Troy, in 1858. Safety and durability were the considerations which led to its construction, and it may safely be added that it is admirably adapted for its purposes, and is considered as having secured the objects contemplated in its erection.

IRON FERRY HOUSES

Have also been constructed by the Architectural Iron Works for the Union Ferry Company of New York and Brooklyn. These structures are an ornament to the city, and supply the place of the unsightly wooden buildings formerly occupying their position, which were liable to rapid decay and destruction by fire.

IRON OIL TANKS,

Of large capacity, capable of holding hundreds of barrels each, have been constructed for the Phenix Warehousing Company of New York, for the storage of Petroleum.

These tanks, of which many are placed under one roof, are designed to prevent loss by leakage and evaporation, and to protect the oil from the perils of fire. It is believed that they are admirably fitted for all the purposes for which they were constructed.

We would call attention to the combination of

CAST AND WROUGHT-IRON BEAMS,

As shown in Plate LXIII. The great strength and elasticity of these Beams consist in their peculiar shape, the necessary quantity of iron being in the proper place, and the Wrought-Iron Tension-rod in the best position to sustain heavy burdens.

This is believed to be the only Beam which prevents all oscillation or trembling of the floors in buildings used for heavy or rapid-running machinery.

A recent and most successful use of Iron has been made by the "Iron Blind Company," in the construction of

VENETIAN BLINDS,

Both for the outside and inside of windows.

These Blinds present a much lighter appearance to the eye than those made of wood, over which they possess several important advantages. When opened, they admit more light than wooden Venetian Blinds; when closed, they exclude the light more perfectly; they also occupy less space, are more durable, and are proof against fire. They are not liable to warpage or shrinkage, and hence will remain for a long time in working order. They are highly approved by all who have seen or used them. This Corporation has the sole right to manufacture them.

In this connection may be mentioned the use of Iron in the construction of

WINDOW SASHES,

Which, while scarcely heavier than wood (being hollow), possess the superior advantages of beauty, durability, and incombustibility. These Sashes are especially adapted to warm climates.

It would occupy a large space to enumerate all the uses to which Iron has been applied by the Architectural Iron Works, but the following may be added to those already mentioned, namely: Bridges, Roofs, Domes, Railings, Verandahs, Balustrades, Cornices, Stairways, Columns, Capitals and Arches, Window Lintels and Sills, Consoles, Brackets and Rosettes, Urns, Door and Window Guards, Lamp, Awning and Horse Posts, Patent Lights and Iron Sidewalks.

Reference to the Table of Contents will show numerous uses besides those already enumerated.

This volume is published at a great cost, for the twofold purpose of supplying Architects and others with plans and details for the construction of the various parts and connections of Architectural Iron Structures, and as an advertising medium for the Architectural Iron Works; and it is designed to be presented to those who may be profited by its study, and aid in the object of extending the business of the publishers, and improving the public taste.

ILLUSTRATIONS.

PLATE I. Frontispiece, showing, through the Arch, the Office Building of the Architectural Iron Works, 42 Duane Street, New York.

II. View of the Architectural Iron Works, seen from Fourteenth Street and Avenue C, New York, as they appeared before the destruction by fire of the main building in the spring of 1864. These works have since been rebuilt, enlarged, and greatly improved.

III. Elevation of front of building corner of Broadway and Broome Streets, New York, built for and occupied by E. V. Haughwout & Co.

IV. Elevation of front of building erected for I. M. Singer & Co., Sewing Machine Manufacturers, on Mott Street, between Spring and Broome Streets, New York, as a manufactory for their machines.

This building is perfectly fire-proof; the roof, the front and rear, including sashes, shutters, &c., being entirely of iron. The floors are supported upon iron columns and girders, with iron beams and brick arches. The stairs, &c., are of iron, as shown upon a section of this building, PLATE VI.

V. Section and elevation of Piers, Cornice and Arch. Also, elevation of Pedestal, Capital and Base. (Singer Building, PLATE IV.)

VI. Section of Singer Building (see PLATE IV) showing Columns, Girders, Beams, Stairs, Roofs, Side-walks, etc.

VII. Elevation of front of Cary Building on Chambers Street, New York, and of duplicate front on Reade Street. All the openings in both fronts are enclosed with patent Rolling Iron Shutters. Built for W. H. Cary. Occupied by Cary, Howard and Sanger.

VIII. No. 117. Elevation of Capital, Cornice, Pedestal and Panel. (See PLATE XV., No. 8.)

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IX. Elevation of Gilsey Building, corner of Broadway and Cortlandt Street, New York. Built for P. Gilsey. Occupied in first story for stores, in upper stories for offices.

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XI. Elevation of front of Sales Room of the Grover & Baker Sewing Machine Company, Broadway, New York. Built for O. B. Potter.

PLATE XII. Front and end elevation and section of Iron Store House, erected for the U. S. Government at Watervliet Arsenal, West Troy, N. Y.
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XVII. Nos. 4, 5 and 6. Elevation of Four-story Fronts, showing the adaptation of iron to different styles of architecture.

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XXX. Elevation of a building adapted to the use of Associations and Lodges; very substantial.

XXXI. Elevations and Plans of First-story Fronts.
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These designs are on the scale of one-eighth of an inch to the foot, and are intended for 25-feet lots. They can be adapted to any sized lot.

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XCIV. Iron Railings.

XCV. Iron Railings.

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XCVIII. Gates, Gate Posts, and other Posts.

XCIX. Gates, Gate Posts, and other Posts.

C. Verandah and Verandah Railings.

CI. Verandah and Verandah Railings.

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"		XIV.	43
"		XXIV.	64
"		XXXVII.	18
Baluster		XVI.	92
"		"	94
"		"	111

Also, other sizes and styles.

Balustrade		XVI.	92
"		"	94
"		"	111
"		LXXXIX.	199
"		"	200
"		"	201
"		"	202

Base of Column		V.	119
"		VIII.	118
"		XLIX.	22
"		"	24
"		L.	146
"		"	147
"		"	148
"		LI.	157
"		"	158
"		"	159

Also, a great variety of styles and sizes.

Beam, Vault, any desired length		LIII.	29
" " "		"	133
" " "		"	134
" " "		"	135
" " "		"	136
" " "		"	137
Blinds, Pat. Iron, Venetian, Inside and Outside, Fire proof		LVI.	
Blocking Course		XVIII.	101
"		XX.	89
"		XLIV.	88

	Height.	Proj.		
Bracket	.8½	.8	LXXII.	9
"	.6½	.4½	"	10
"	1.1½	.10	"	11
"	1.	1.1	"	12
"	1.3	1.2½	"	12
"	.10	.10½	"	12
"	1.6	1.8	"	13
"	.10	1.8	"	14
"	.9½	1.3	"	15
"	1.3	1.1	"	16
"	4.2	3.	"	54

Buttress, Block		XVIII.	102
" "		XXXII.	98
" "		XXXV.	34
" "		LXIV.	25
" "		LXVIII.	35
" "		LXXV.	38
" "		LXXVI.	39
" "		LXXVIII.	40
" "		LXXIX.	41

Many other styles, all sizes.

		Diam. of neck.	Height of cap.	Plate.	No.
Capital, Doric		$5\frac{3}{4}$	4		
" "		$6\frac{1}{2}$	$4\frac{1}{4}$		
" "		$7\frac{1}{4}$	$3\frac{3}{8}$		
" "		8	5		
" "		10	$4\frac{1}{2}$		
" Composite				LI.	158
" Corinthian, for Columns.					

Diam. of Col. at base.	Diam. of neck.	Height including abacus & cover.	Plate.	No.
4	$3\frac{1}{2}$	$7\frac{1}{4}$	XLIX	22
5	$4\frac{1}{2}$	9	"	"
6	$4\frac{7}{8}$	9	"	"
7	$5\frac{7}{8}$	11	"	"
8	$6\frac{3}{4}$	$11\frac{3}{4}$	"	"
8	$6\frac{7}{8}$	11	"	"
8	$7\frac{1}{4}$	1 ft. 3	"	"
9	$7\frac{1}{4}$	1.	"	"
10	$8\frac{1}{4}$	1.	"	"
11	$8\frac{7}{8}$	$1.3\frac{1}{4}$	"	"
11	$9\frac{3}{16}$	$1.2\frac{3}{4}$	"	"
1 ft.	$11\frac{1}{8}$	$1.3\frac{1}{4}$	"	"
$1.0\frac{1}{2}$	10	$1.2\frac{1}{2}$	"	"
$1.1\frac{1}{2}$	$10\frac{3}{4}$	$1.4\frac{1}{4}$	"	"
1.2	$1.0\frac{1}{2}$	$1.4\frac{1}{2}$	"	"
1.4	$1.1\frac{1}{8}$	1.7	"	"
1.5	$1.1\frac{7}{8}$	$1.7\frac{3}{4}$	"	"
1.6	$1.3\frac{1}{8}$	$1.7\frac{3}{4}$	"	"
1.8	$1.5\frac{1}{4}$	$2.3\frac{1}{2}$	"	"
3.	2.2	3.10	"	"

Also, other sizes.

Capital, Corinthian for Pilasters.

Width of pilaster.	Height inc. abacus & cover.	Plate.	No.
.6	1.1	XLIX.	26
.7	1.1	"	"
.8	1.1	"	"
.9	1.1	"	"
.10	1.1	"	"
1 ft.	1.1	"	"
1.2	1.1	"	"
1.4	1.1	"	"
.9	$1.2\frac{1}{2}$	"	"
.10	$1.2\frac{1}{2}$	"	"
1 ft.	$1.2\frac{1}{2}$	"	"
1.2	$1.2\frac{1}{2}$	"	"
1.4	$1.2\frac{1}{2}$	"	"
1.6	$1.2\frac{1}{2}$	"	"
1.8	$1.2\frac{1}{2}$	"	"
1.0	$1.4\frac{1}{2}$	"	"
1.2	$1.4\frac{1}{2}$	"	"
1.4	$1.4\frac{1}{2}$	"	"
1.6	$1.4\frac{1}{2}$	"	"
1.8	$1.4\frac{1}{2}$	"	"
.10	1.3	"	"
1.0	$1.3\frac{1}{4}$	"	"
1.4	1.7	"	"
$1.5\frac{1}{2}$	$2.3\frac{1}{2}$	"	"

Also, other sizes.

		Diameter.	Height.	Plate.	No.
Capital, Ionic				LI	158
" "				XLIV	126
" Tuscan				LI	161
" Aldrich				XLIX	19
" Eagle				"	20
" Foliated				"	18
" "				"	23
" Gothic				"	21
" "				L	148
" Horn of Plenty		$10\frac{3}{4}$	$1.4\frac{1}{4}$	"	146
" " "		$1.1\frac{1}{8}$	1.7	"	146
" Stewart's		....	....	"	147

Also, other designs of Capitals.

		Plate.	No.
Column		L.	146
"		"	147
"		"	148
"		LI.	157
"		"	158
"		"	159
"		"	160
"		"	161
"		XLIX.	22
Corbel		XLVIII.	28
"		"	281
"		"	282
"		"	283
"		"	284
"		XLV.	31
"		XLII.	125

Also, other styles.

				Plate.	No.
Cornice.	Singer.	Plain.	Dentils	V.	119
"	"	"	"	VIII.	117
"		Enriched.	Modillions	X.	84
"	Gilsey.	"	"	"	58
"	"	"	Trusses	"	85
"		Plain.	Modillions	"	17
"		Enriched.	" Dentils	"	97
"		Plain.	"	"	90
"		"	"	"	91
"	Watervliet.	Plain.	Dentils	XIII.	120
"	B'way and Broome.	Enriched.	Modillion. Balustrade above	XVI.	92
"	501 B'way.	Enriched.	Trusses	"	86
"	Lord & Taylor's.	Plain, with ornam'ts.		"	82
"	5th Av. Hotel.	"	Modil. Dentils.	XVIII.	100
"	Stewart's.	"	Doric	"	101
"	388 B'way.	Gothic and Ball-flower		"	102
"		Plain.	Modillions	"	103
"	Cooper Inst.	"	"	XX.	61
"		Enriched.	" Dentils.	"	87
"		Plain.	"	"	89
"	Society Lib'ry.	"	" Dentils.	"	93
"		Enriched		"	99
"		Plain.	Modillions	"	83
"		"	"	"	62

			Plate.	No.
Cornice.	Enriched Modillions.	Ornamented.....	XXIII.	95
"	130 B'way. Enriched Modill.	Dentils.	"	96
"	B'way & Grand. "	Dentils	XXXII.	98
"	Gilsey. "	Trusses	"	52
"	Plain.	Dentils.....	XLIV.	88

Many other designs can be made with or without enrichments.

Console or Truss.

	Height, including caps, but exclusive of foot leaf.	Project'n.	Width.	Plate.	No.
Gilsey.....	1.4	.8	.5½	X.	85
501 Broadway.	2.6½	1.5	.6	XVI.	86
130 "	3.8	1.4	1.0	XXIII.	96
	.7	.5	.6	XLII.	71
	1.10	.9	.10	XLVII.	38
	1.7	.10½	.8	"	32
	1.7	.10½	.10	"	32
	1.4½	1.2	1.0	"	47
	1.10	1.6	1.5	similar to	47
	1.11	.10½	.8	XLVII.	34
Tiffany.....	1.5	3.5	.9	"	67
Thomas.....	2.6½	1.11	.6	"	53
Tiffany.....	1.8½	1.7	.8	"	46
	2.3	1.2	1.2	"	8
	2.3	1.2	1.0	"	8
Similar to No. 8, but no carved mold'g on face.	2.3	.9	.10		K
	2.3	.9	1.0		K
	2.3	.9	1.2		K
Brandreth	2.9	1.5	1.4	XLVII.	35
	2.1	.9	.6	XLVIII.	275
	2.1	.9	.8	"	275
	2.1	.9	.10	"	275
	2.1	.9	1.0	"	275
	2.1	.9	1.2	"	275
	2.6	.11	.6	"	277
	2.6	.11	.8	"	277
	1.8½	.7	.7	"	279
	1.8	.5	.7	"	279
Similar to 276..	2.4	1.2	.6		G
" " ..	2.0	1.0	.8		E
	3.0	3.0	..	XLVIII.	6
	1.4	.10	.8	LXXII.	33
	..	..	..	"	36
	2.8½	.8	.8	"	37
	1.3	.7	.7	"	39
Similar to 39...	1.4	.6	.7½	..	Q
	1.4	.10	..	..	A
	1.3	.8	..	..	B
	1.8½	.11½	.8	..	F
	1.8	.6	.5	..	D
	2.0	.9	.9	..	H
Palmer.....	3.2	1.7	.8	..	I
"	3.2	1.7	.10	..	I
	2.2	1.0	1.0	..	J
	2.2	1.0	1.2	..	J
	2.2	1.0	1.4	..	J
	1.6	.6	.5	..	L

	Height, including caps, but exclusive of foot leaf.	Projection.	Width.	Plate.	No.
Console or Truss.....	1.6	.6	.6	..	L
	1.8	.4	.4	..	M
Face on front.	2.0	.5	.6	..	N
	2.0	.5	.7	..	O
	2.0	.5	.7	..	P
	1.7	1.0	.8	..	R
	1.6	1.0	.8	..	S

Many other designs and sizes.

Dentils.....	V.	119	
"	VIII.	117	
"	"	118	
"	X.	97	
"	XIII.	120	
"	XVIII.	100	
"	XX.	87	
"	"	93	
"	XXIII.	96	
"	XXXII.	98	

Also, other designs.

Gates.....	XCVIII.	245
"	XCIX.	257

Also, many other designs.

Girder, Arch and Tension Rod.....	LXIII.	271
" " "	"	272
" " "	"	273
" " "	"	274

		Height.	Width.		
Guard, Door.	Lattice.....	4.4½	.10	LXXVII.	131
" "	.....	4.3½	1.1	"	131
" "	.....	4.1½	.10	"	131
" "	.....	3.9	1.1	"	132
" "	.....	3.9	.11½	"	132
" "	.....	3.9	.10	"	132
" "	.....	3.5½	1.1	"	132
" "	.....	3.5½	.11½	"	132
" "	.....	3.5½	.10	"	132
" "	.....	3.1½	.10	"	132
" "	.....	4.3½	1.1	"	130
" "	.....	3.9	1.1	"	141
" "	.....	3.9	.11½	"	129
" "	.....	3.9	.11½	"	127
" "	.....	4.3½	1.1	"	137
" "	.....	3.9	1.1	"	137
" "	.....	....	....	XCI.	48
" "	.....	....	....	"	205
" "	.....	....	....	"	206
" "	any size, with or without Border.			"	203
" "	.....	....	....	"	204
" "	.....	....	....	"	207

All with Square or Circular Tops or Bottoms.

Also, other designs.

	Plate.	No.
Horse Block	LXXXII.	193
Key, Arch, different sizes	VIII.	118
" "	XXVII.	107
" "	XXXII.	112
" "	XXXIX.	106
" "	"	110

Also, other styles and sizes.

Lattice. See Panels.

Lathing. Patent. Iron. Fire-proof.

	Width of Opening.	No. of Pattern.	Plate.	No.
Lintel, or Cap. Window:				
" "	....	....	XLI.	138
" "	4 ft.	....	"	3
" "	....	....	"	139
" "	4.4½	....	"	140
" any length,	6.3½	140 B	"	140
" "	....	....	"	4
" "	5.5½	141 A	"	141
" f'm 3.2 to 3.6,	3.4	....	"	2
" "	3.10	....	"	142
" "	4.10½	5 A	XLII.	5 A
" "	5.9	5 B	"	5 A
" "	....	....	"	5 B
" "	....	....	"	70
" "	4.2½	....	"	123
" "	....	....	"	124
" "	3.6	68 A	"	68
" "	4.5½	68 B	"	68
" "	3.3	68 C	"	68
" "	3.6	68 D	"	68
" "	3.8	68 E	"	68
" "	3.10	68 F	"	68
" f'm 3.9 to 4.3	4.	68 G	"	68
" "	4.2½	68 H	"	68
" "	4.4	68 I	"	68
" "	4.5	68 J	"	68
" "	3.2¾	73 A	"	73
" "	3.4¾	73 B	"	73
" "	4.2	73 C	"	73
" "	2.11	73 D	"	73
" "	3.2¼	73 E	"	73
" "	3.5	73 F	"	73
" "	4.0	73 G	"	73
" "	4.1	73 H	"	73
" "	4.3	73 I	"	73
" "	6.0¾	121	"	121
" "	3.9	121 A	"	121
" "	4.1	121 B	"	121
" any length "	5.3	121 C	"	121
" "	3.4	121 D	"	122
" "	..	....	"	125
" "	3.3½	71 A	"	71
" "	4.1	71 B	"	71
" "	4.6	71 C	"	71
" "	..	....	XLIV.	144
" "	..	....	"	145

Lintel, or Cap. Window:

	Width of Opening.	Height.	No. Pattern.
plain horizontal	4.6	1.0¾	B
" "	4.7	.10	E
" "	4.7	.11	
" "	4.7¾	.10½	A
" "	4.10	.10½	D
" "	5.1½	1.6¼	F
" plain segment..	5.3	.11	C

Also, many other designs, all sizes.

	Plate.	No.
Modillion	X	84
"	"	58
"	"	17
"	"	90
"	"	97
"	"	91
"	XVI.	92
"	XVIII.	100
"	"	103

Also, many other styles and sizes.

	Plate.	No.
Panels, Lattice, any size	LVII.	151
" " "	"	152
" " "	"	153
" " "	"	154
" " "	"	155
" " "	"	156
" " "	LXXXI.	183
" " "	"	184
Pavement—Street	LXVI.	42
" "	"	43
" "	"	44
" "	"	45
Pedestal	V.	119
"	XVI.	111
" any size	"	94
"	"	92
"	XLIV.	104
Pediment	VII.	1
"	IX.	29
"	XV.	8
"	XXX.	21
"	XXXV.	34
"	XLVI.	20
"	LXVIII.	35
"	LXXIV.	36
"	LXXV.	38
"	LXXVI.	39
"	LXXVIII.	40
Portico	XIV.	43
"	LV.	44
"	LXIV.	24
Post—Awning. See Awning.		
Post—Horse, or Hitching	LXXXI.	177
" " "	"	178
" " "	"	179
" " "	"	180
" " "	"	181
" " "	"	182

	Plate.	No.
Post—Gate or Railing	XCVIII.	246
" " "	"	247
" " "	"	248
" " "	"	249
" " "	"	250
" " "	"	251
" " "	"	252
" " "	"	253
" " "	"	254
" " "	"	255
" " "	"	256
" " "	XCIX.	258
" " "	"	259
" " "	"	260
" " "	"	261
" " "	"	262
" " "	"	263
" " "	"	264
" " "	"	265
" " "	"	267
" " "	"	268

Also, many other designs.

Post—Lamp	XLIV.	128
" "	LXXXI.	175
" "	"	176

Also, other designs.

Railing	XCIII.	208
"	"	209
"	"	210
"	"	211
"	"	212
"	"	213
"	"	214
"	"	215
"	"	216
"	"	217
"	"	218
"	"	219
"	XCIV.	220
"	"	221
"	"	222
"	"	223
"	"	224
"	"	225
"	"	226
"	"	227
"	"	228
"	XCV.	229
"	"	230
"	"	231
"	"	232
"	"	233
"	"	234
"	"	235

	Plate.	No.
Railing	XCVII.	239
"	"	240
"	"	241
"	"	242
"	"	243
"	"	244
"	C.	105
"	CI.	162
" Cemetery	XCVI.	236
" "	"	237
" "	"	238

Also, many other designs.

Railroad Track	LXVI.	41

Riser	LXXXII.	187
"	"	189
"	"	191
"	"	194
"	"	195
"	"	196
"	"	197

Roof	VI.	16
"	XII.	56
"	LXXIII.	19

Rosette	LXXII.	55
"	"	56
"	"	57
"	"	59
"	"	60
"	"	63
"	"	64
"	"	65
"	"	66
"	"	69
"	"	72
"	"	74
"	"	75
"	LXVI.	41

Also, a great variety of others.

Sashes, Pat., Iron and Brass. Light, strong, durable, fire-proof.

Shutters, Iron Rolling	XXIX.	143
" "	LXIX.	149
" "	"	150
" "	LXXI.	5

These plates explain the construction, operation, &c.

Sill, Door, any width or length	LXXXII.	185
" " " "	"	188
" " " "	"	190
" " " "	"	192

Also, a great variety of other patterns.

Sill, Window, any size	XLIII.	—
" " "	XLV.	30
" " "	"	78
" " "	"	79
" " "	"	80

Also, a great variety of other patterns.

Stairs—Circular	LXXXII.	198

Also, other styles.

Tread, Stair	LXXXII.	186

Also, other styles.

Truss—see Console.

	Height.	Width at base.		
Urn			XLVIII.	278
"	1.1	.5½	LXXX.	163
"	2.3	1.4	"	164
"	3.10	1.7	"	165
"	3.8	.11	"	166
"	2.2	.9	"	167
"	1.8	.8½	"	168
"	2.4	1.2	"	169
"	3.0	.10	"	170
"	4.0	1.6	"	171
"	2.9	.8	"	172

Verandah	C.	105
"	CI.	162

Also, other styles.

CATALOGUE OF THE PRINCIPAL WORKS

ERECTED BY THE

ARCHITECTURAL IRON WORKS.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Albany, N. Y., Greene St...	Albert Blair.....	.....	3 Store Fronts.
Do do N. Pearl St..	James Kidd.....	.....	2 "
Do do do .	do	—— Smith.....	42 feet 4-story Front, similar to Plate XXI.
Do do	A. Koonz.....	.....	1 Store Front.
Do do	Woollett & Ogden.....	.....	1 "
Alexandria, La.....	.....	.....	Court House Portico, and Main Course.
Alexandria, Egypt.....	R. H. Allen & Co.....	.....	Iron Storehouse.
Alleghany City, Penn.....	Gordon & Rafferty.....	.....	1 Store Front.
Atlanta, Ga.....	I. Boutell.....	.....	80 feet Store Front.
Do	Beach & Root.....	.....	49 " "
Auburn, N. Y.....	J. W. Haight.....	.....	1 Store Front.
Do	F. L. Griswold & Co...	.....	1 "
Augusta, Ga.....	T. S. Metcalf.....	.....	15 Store Fronts.
Do	City Bank	.....	Exterior Iron Work.
Do	Lambeck & Cooper.....	.....	2-story Front. Plate XXXVII., No. 18.
Baltimore, Md.....	Baltimore Sun.....	R. G. Hatfield.....	7 Store Fronts.
Do	Canfield, Brothers & Co.	.....	1 "
Do	J. King.....	J. Dixon	1 "
Bath, N. Y.	H. W. Perrine	M. Austin.....	1 "
Do	A. S. Howell.....	G. E. Bartlett.....	1 "
Boston, Blackstone Street...	Ritchie & Wentworth...	.....	50-feet Store Fronts.
Do do do ..	Mr. Richardson.....	S. P. Fuller.....	87 " sim. to Pl. XXVIII., No. 62.
Do Congress do ..	L. Ware	G. J. F. Bryant....	109 " " " XL., No. 67.
Do Court do ..	J. C. Gray	C. K. Kirby	50-feet 5-story Front. See Plate LVIII.
Do Federal do ..	Mr. Kramer.....	G. J. F. Bryant....	1 Store Front. Plate XL., No. 67.
Do Theatre Alley.....	C. Merriam & Sons.....	S. P. Fuller.....	5 Store Fronts. Plate XXVIII., No. 62.
Do Washington St.....	H. H. Hunnewell.....	George Snell.....	5-story Front. Plate LIX.
Brant, Canada West.....	Hegeman & Co.....	.....	2 Store Fronts.
Bridgeport, Conn.....	S. Sterling.....	.....	1 Store Front.
Do do	R. E. Stanton.....	Lambert & Bunnell.	1 "
Do do	City Bank	do ..	40-feet 3-story Front.
Do do	Benham, Brothers.....	do ..	2 Store Fronts.
Brooklyn, N. Y	Phenix Warehouse Co..	.....	42 Oil Tanks, 300 bbls. each.
Do do Atlantic St.	J. Smith.....	King & Kellum	1 Store Front.
Do do Atlantic D'k.	U. States Warehouse Co.	G. H. Johnson & Co.	Grain Warehouse, Plates LX., LXI., LXII., 107×125 feet. 5 stories. Fire-proof.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Brooklyn, N. Y., Fulton St.	Mr. Williams		2 Store Fronts.
Do do do	E. Lewis		1 "
Do do do	L. J. Horton		2 "
Do do do	J. O. Whitehouse		1 "
Do do do	Smith & Jewell	G. H. Johnson	Iron Works, Fulton Mills.
Do do do	City of Brooklyn		3 Engine House Fronts.
Do do do	V. G. Hall		1 Store Front.
Do do do	W. H. Cary	King & Kellum	3 Store Fronts.
Do do do	Mr. Newman	Mr. Roberts	1 Store Front.
Do do do	J. Burroughs	King & Kellum	1 "
Do do do	J. Halsey	G. H. Johnson	Halsey Building. Plate LII.
Do do do	C. V. B. Ostrander		1 Store Front.
Do do do	Smith & Jewell	G. H. Johnson & Co.	75 feet "
Do do do	Kings County	King & Tecknitz	Iron Work, Kings Co. Court Ho.: Beams, Roof, Dome, Stairs, Sashes, Shutters, &c.
Do Hamilton Av	Smith & Jewell	G. H. Johnson	Iron Work, Atlantic Flour Mill.
Do Navy Yard	U. S. Government		" Government Stores.
Do Pierrepont Place.	A. A. Low	F. A. Petersen	47 feet Greenhouse Front.
Do do	do	do	1 Verandah.
Do do	A. A. White	do	1 "
Buffalo, N. Y	George Coit, Jr.		2 Store Fronts.
Do	Mr. Buckley		1 "
Do	Brown, Brothers		173 feet Front, Brown's Building.
Charleston, S. C	Dwing, Thayer & Co		1 Store Front.
Do	O. M. Cohen		1 "
Do	F. O. Fanning & Co		1 "
Do	R. Boyce		2 "
Do	H. W. Conner		1 "
Do	Hariel, Hare & Co		3 "
Do	T. A. P. Horton		1 "
Do	A. Elfe		1 "
Do	Bancroft, Betts & Marshall		2 "
Do	L. M. Hatch		1 "
Do	W. J. Walker & Brother		2 "
Do	J. E. Spear		1 "
Do	P. O'Donnell		1 "
Do	U. S. Government		Columns Custom House.
Chicago, Ill	C. R. Starkweather		2 Store Fronts.
Do	A. Robbins	J. M. Van Osdell	231 feet 5-story Front. Plate LIV.
Do	J. Link	do	150 feet 5- " " VII.
Do	Lloyd and Sons	do	161 feet 5- " " XIX.
Do	F. Tuttle and others	do	158 feet 5- " " LXX.
Do	Price, Church & Co		150 feet 5- "
Cuba	F. P. Dias		Market, &c.
Detroit, Mich	F. & C. H. Buhl		4 Store Fronts.
Dunkirk, N. Y	E. Risley & Co		5 "
Fort Lafayette	U. S. Government		Iron Work.
Georgetown, S. C	S. W. Ronguie		31 feet Store Front.
Glenham, N. Y	Glenham Company		1 Store Front.
Grand Rapids, Mich.	J. W. Pierce		1 "
Do do	W. P. Collins		2 "
Halifax, N. S	W. G. Combes		4-story Front. Plate LXXIX.
Do	Mr. Bennett	C. P. Thomas	1 Store Front. " LXXVI.
Do	Duffries & Co	do	2 " " LXXVIII.
Do	Mr. Coleman	do	2 " " LXXV.
Do	Mr. Billings, Jr.	do	1 " " LXVIII.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
Halifax, N. S.	Mr. Chipman	C. P. Thomas	2 Store Fronts, Plate LXXIV.
Do	Mr. Skerry	do	1 Store Front, " LXXIV.
Do	Mr. Mignowitz	do	1 " " LXXIV.
Do	Mr. Billings	do	2 Store Fronts. " LXXIV.
Do	C. C. Tropolet		3 "
Do	Mr. Roman	C. P. Thomas	2 "
Do	Mr. Scott		2 "
Havana, Cuba	Pesant, Brothers		Sugar Sheds, 143 feet long. Pl. LXXIII.
Do	Spanish Navy		Lumber Sheds, 81×120 feet.
High Bridge	Croton Aqueduct Dept.		Railing, High Bridge.
Lancaster, Penn	J. N. Lane & Nephews		1 Store Front.
Lockport, N. Y	N. J. Dunlap		1 "
Lynchburg, Va	J. T. Davis		1 "
Do	W. S. Ellison		1 "
Martinsville, La	Tertron, Bronsard & Co.		1 "
Matanzas, Cuba	C. A. Caruano		Columns, &c., Public Hall.
Memphis, Tenn	Mosely & Hunt		4-story Front, similar to Pl. XV., No. 7.
Do	W. B. Greenlow		2 Store Fronts. Plate XXXIII.
Do	Cooke & Co	Fletcher & Wintter	4-story " " XLVI.
Milwaukee, Wis	H. J. Nazro & Co		2 Store Fronts.
Do	Mack, Ottinger & Co	Otto Schwartz	1 Store Front.
Do	Mahler & Wendt		2 "
Do	J. B. Martin	G. H. Johnson	160 feet 4-story Front. Plate XLVI.
Mobile, Ala	J. Emanuel		2 Store Fronts.
Do	Daniels, Elgin & Co	J. H. Giles	45 feet 4-story Front.
Do	do	do	103 feet Store Front.
Newark, N. J	Mr. Dennis	Mr. Hall	1 Store Front.
Do	J. McGregor		40 feet 4-story Front. Plate XXVI.
Do	J. W. Corey		1 Store Front.
New Haven, Conn	H. N. Whittlesey		2 Store Fronts.
Do	T. Bennett		2 "
Do	Perkins, Treat & Chatfield		2 "
Do	Young Men's Inst		2 "
Do	A. Parker		3 "
New London, Conn	S. & G. Rogers		2 "
New Orleans, La	Paul Tulane		47 feet 5-story Front. Plate VII.
Do	J. B. Lee		62 feet Store Front.
NEW YORK:			
Barclay St., No. 34	R. A. & G. Witthaus	S. A. Warner	5-story Front. Plate XXXVIII., No. 9.
Do 36, 38		T. R. Jackson	2 Store Fronts.
Do 50	Mr. Gibson	J. C. Wells	1 "
Do 52, 54	Wolfe & Mickle		2 "
Do 58	T. E. Gilbert	W. H. Hume	1 "
Beekman St., 23, 25			2 "
Do 27			1 "
Do 29	Remsen & Ely	G. W. Noble	1 "
Do 55, 57		J. B. Snook	2 " and Rears.
Do 79, 81		Do	2 "
Do 83		Do	5-story Front. Plate XC., No. 14.
Bleecker St., cor. Mercer.	Mr. Bosch		1 Store Front.
Do do	Judge Jackson	Kellum & Son	35 feet Store Front.
Do do	A. T. Stewart	J. B. Snook	82 " "
Bowery, No. 13	C. S. Hines		1 Store Front and Basement.
Do 70, 72	Wm. B. Astor		2 " "
Do 96	A. L. Ely	R. G. Hatfield	1 "
Do 98		Thomas & Son	1 "

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:			
Bowery, No. 110	A. L. Ely	R. G. Hatfield	1 Store Front and Basement.
Do 163	McGraw and Taylor		1 "
Do 267	J. B. Simpson	J. B. Snook	1 " Plate XL., No. 68.
Do cor. Canal	Lorillards	Thomas & Son	132 feet Store Front.
Do " Delancey	J. B. Simpson	A. Winham	50 "
Do " Houston	Lorillards		4 Store Fronts.
Do " Bond		J. B. Snook	40 feet "
Bridge St	R. Blanco		91 " "
Broadway, Nos. 39 to 49	McCurdy, Aldrich & Spencer		5 Store Fronts.
Do 53	P. & R. Goelet		5-story Front and Basem't. Pl. XV., No. 8.
Do 61		S. A. Warner	82 feet Store Front.
Do 63, 65	L. S. Suarez		2 Store Fronts.
Do 70	James Harriot & Co		1 Store Front.
Do 72	Mr. Cruger	Thomas & Son	1 "
Do 84	Mr. St. John	R. G. Hatfield	31 feet Front, 2 story. Pl. XXXV., No. 33.
Do 102	Continental Ins. Co	G. Thomas	2 Store Fronts.
Do 112, 114	Bowen & McNamee		Patent Shutters for 2 Fronts.
Do 130	W. H. Hume	W. H. Hume	5-story Front. Plate XXII.
Do 139		J. F. Duckworth	1 Store Front.
Do 141	G. & W. Young		1 "
Do 151		J. F. Duckworth	1 "
Do 156, 158	D. H. Haight	J. B. Snook	2 Store Fronts.
Do 161, 163, 165	F. Marquand		3 "
Do 177	W. H. Smith		1 Store Front.
Do 179	Thomas Hunt	King & Kellum	1 "
Do 187	Noel J. Becar		1 "
Do 194	L. M. Wiley		1 "
Do 199	—— Young		1 "
Do 202	A. Cleveland	Thomas & Son	1 "
Do 203	J. Q. Jones		1 "
Do 204	Appletons	Thomas & Son	1 "
Do 205	W. H. Smith		1 " and Basement.
Do 235	Tracy, Irwin & Co	Thomas & Son	1 "
Do 241, 243	Solomon & Hart	F. A. Petersen	2 Store Fronts.
Do 245	D. O'Connor		1 Store Front.
Do 252			5-story Front, similar to Plate XV., No. 7.
Do 257	Mr. Field		1 Store Front.
Do 287	S. Storms		1 "
Do 292, 296	J. De Forest		2 Store Fronts.
Do 294	B. Pike, Jr		1 Store Front.
Do 300	W. B. Astor	G. Thomas	1 "
Do 306	Mr. Barclay		1 "
Do 332	John Dolan	J. B. Snook	5-story Front, similar to Plate XC.
Do 341	Paton & Co.	J. H. Giles	1 Store Front.
Do 343	Geo. Ponsot		1 "
Do 349	J. & I Cox		1 "
Do 355	Adriance & Strang		1 "
Do 360	P. Lorillard		1 "
Do 361, 363	H. Wood	J. Rogers	2 Store Fronts. [No. 66.
Do 369	Solomon & Hart	F. A. Petersen	1 Store Front and Basement. Pl. XXVIII.,
Do 371, 375	Dr. Moffat		2 " " and Rear.
Do 372	H. D. Aldrich	S. A. Warner	1 "
Do 373	L. Spencer	J. B. Snook	5-story Front and Basement. Plate XIX.
Do 377, 379	Mr. Lawrence		2 Store Fronts.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:			
Broadway, No. 388	D. Wood	King & Kellum	1 Store Front, Basement and Rear.
Do 403	P. & R. Goelet		1 "
Do 404, 406, 408	P. Lorillard		3 Store Fronts.
Do 405½	Duncan & Sons		1 Store Front.
Do 442 to 454	G. W. Miller	A. Winnam	125 feet Store Fronts. City Assembly R'ms.
Do 447	Mr. Collamore		1 Store Front.
Do 449	Mr. Jackson		1 "
Do 452, 454	Peter Goelet		1 "
Do 456	T. Woodruff		1 "
Do 471	W. Gibson		1 "
Do 481	J. De Wolfe		1 "
Do 495	Grover & Baker	G. H. Johnson	3-story Front. Plate XI.
Do 501	O. B. Potter	Thomas & Son	5-story Front. Sim. to Plate XC.
Do 502, 504	Dr. H. Bostwick	Kellum & Son	2-store Fronts. Basement and Rear.
Do 506	E. Langdon		1 Store Front.
Do 508			1 "
Do 516	Savings Bank		Pat. Shutters for Front
Do 535	S. Brewster		1 store Front.
Do 543	W. B. Astor		1 "
Do 547			1 "
Do 550	Tiffany & Co	R. G. Hatfield	1 " and Base't. Plate LXIV., No. 26.
Do 552, 554	R. French	J. B. Snook	2 "
Do 555	A. R. Eno	Thomas & Son	1 "
Do 577, 579, 581	Langdon family		3 "
Do 585		J. Rogers	1 "
Do 601	W. & E. Mitchell		1 "
Do 604			1 "
Do 606			1 "
Do 620	Henry Dolan	J. B. Snook	6-story Front. Sim. to Plate VII.
Do 621	Gerard Stuyvesant		1 Store Front.
Do 624, 626	Uhl & Whitney	J. M. Trimble	Ent. to L. Keene's Thea. Pl. LXIV., No. 24.
Do 627, 629	S. Brewster		2 Store Fronts.
Do 631 to 637	P. & R. Goelet		4 "
Do 645	Mr. Agate		1 Store Front.
Do 653		J. F. Duckworth	1 "
Do 654			1 "
Do 667 to 677	J. La Farge	Jas. Renwick	150 ft " Old La Farge House.
Do "	"	Jas. Renwick	150 ft " New " "
Do 679			1 "
Do 701	Mr. Manice		1 "
Do 706			1 "
Do 711	Mr. Holmes		1 "
Do 747	J. G. Pearson		1 "
Do 752	N. Y. Dyeing & P. Est.		1 "
Do 758	S. Kohnstamm	Kellum & Son	1 "
Do 785	J. Colles		1 "
Do 845	C. V. S. Roosevelt		1 "
Do 847	"		1 "
Do cor Exch. Pl.	J. Steward, Jr., & Co		1 "
Do " Pine	Continental Ins. Co.	Thomas & Son	2 Fronts.
Do " Cedar		J. B. Snook	2 store Fronts.
Do " Liberty	Mr. Herrick		1 Store Front.
Do " Cortlandt			1 "
Do " "	P. Gilsey	J. W. Ritch	6-story Front. 163 ft. Gilsey Build., Pl. IX.
Do " Dey	W. W. Chester		1-store Front.

LOCATION.		PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:				
Broadway, cor.	Murray ..	Ball, Tompkins & Black		1 Store Front.
Do "	Warren.....	S. V. Hoffman.....	J. B. Snook.....	Pat. Shutters, 150 feet Front.
Do "	Chamber and Reed.	A. T. Stewart...	J. B. Snook.....	"
Do "	Pearl.....	J. Gemmell.....	S. A. Warner.....	50 feet Store Front.
Do "	Anthony ...	Dr. J. Moffat.....	.....	1 Store Front.
Do "	Pearl&Worth	J. R. Whiting.....	Kellum & Son.....	175 feet Store Front and Basement.
Do "	Leonard.....	Appletons.....	.....	2 Store Fronts.
Do "	"	.....	.....	1 "
Do "	"	W. G. Lane & Co.....	.....	198 feet Store Front.
Do "	Franklin....	W. Gibson.....	.....	1 Store Front.
Do "	"	John Taylor.....	Thomas & Son.....	75 feet Front. Taylor's Saloon.
Do "	White.....	Mr. Clark.....	.....	1 Store Front.
Do "	Canal and Lispenard	Dr. Brandreth.....	Chas. Mettam.....	290 feet Store Front and main cornice. Brandreth House.
Do "	Grand.	B. Wood.....	R. G. Hatfield.....	130 feet Store Front.
Do "	Broome.....	W. Gale & Son	Chas. Mettam.....	228 ft. "
Do "	"	W. Langdon.....	J. P. Gaynor.....	5-story Front. 162 ft. Haughwout Building Plate III.
Do "	Spring.....	R. H. Haight & Co .,....	J. B. Snook.....	470 ft. " St. Nicholas Hotel.
Do "	"	J. J. Astor's heirs.....	R. G. Hatfield & D. Lemon.	176 ft. "
Do "	Prince.....	A. T. Stewart.....	Trench & Snook.....	237 ft. " Metropolitan Hotel.
Do "	Fourth.....	Mr. Philbin.....	.....	113 ft. "
Do "	Wash'ton Pl.	.....	.....	35 ft. " 2 story.
Do "	Ninth street.	.....	.....	1 Store Front.
Do "	Tenth.....	J. Beck.....	R. Henry.....	163 ft. " 2 story.
Do "	Twelfth.....	S. Whitney's heirs	.....	2 Store Fronts and Basements.
Do "	Thirteenth....	Mr. Valentine.....	.....	58 ft. "
Do "	Twentieth....	.....	.....	1 Store Front.
Do "	Twenty-first ..	S. Halsted.....	King & Kellum....	2 " Pl. XXIV. No. 64.
Do "	Madison Sq...	.....	.....	2 "
Do "	Twenty-fifth ..	Mr. Livingston.....	J. B. Snook.....	2 "
Do	bet. 25th and 26th	S. V. Hoffman.....	J. B. Snook.....	Hoffman Hotel.
Do	cor. Twenty-sixth.	Mr. Dodworth.....	Renwick & Co.....	142 ft. Front.
Do	.....	Mr. Bulkley.....	.....	1 Store Front.
Do	.....	W. Snickner.....	.....	1 "
Do	.....	S. Brewster.....	.....	3 "
Do	.....	.....	.....	1 "
Burling Slip.....		A. A. Low.....	.....	2 Store Fronts.
Canal street,	253.....	J. Hesley.....	Kellum & Son.....	1 " and Basement.
Do	262.....	P. H. Frost.....	.....	1 "
Do	cor Wooster.....	Rosenblat & Banta.....	W. T. Beers.....	2 "
Do	" Thompson...	People's Bank.....	Thomas & Son.....	75 ft. "
Do	.....	Mr. White.....	.....	1 Store Front.
Do	.....	N. & J. Brown.....	.....	1 "
Do	.....	.....	.....	1 "
Cedar.....		J. D .Phillips.....	.....	2 story Front.
Central Park.....		C. P. Commissioners....	Olmstead & Vaux..	Bridge Railing. Plate XC., No. 229.
Chambers Street:				
Do	43 to 49....	Spencer, Wyeth&Stewart	R. Henry.....	4 Store Fronts and Rear.
Do	53.....	R. Henry.....	.....	1 " "
Do	76.....	.....	J. M. Rich.....	1 "
Do	77.....	Peddie & Merriam.....	.....	5-story Front and Basement, similar to Plate XXXVIII, No. 39.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:			
Chambers Street, 78	Dr. Alcock		1 Store Front.
Do 80, 82	Mr. Holmes		2 "
Do 88			1 "
Do 113			1 " and Basement.
Do 120	W. H. Jones		50 ft. Store Front, 5-story, sim. to Pl. XC.
Do 122			1 Store Front and Basement.
Do 126, 128	Holmes & Colgate	Thomas & Son	2 "
Do 152			1 " and Basement.
Do cor Church	T. Suffern		45 ft. "
Do and Warren.	H. D. Aldrich	S. A. Warner	2 Store Fronts.
Do " Reade	A. T. Stewart	J. B. Snook	218 ft. " and Basement.
Do " "	J. Haggerty		2 Store Fronts.
Do " "	W. S. Wetmore		240 ft. Front.
Do " "	W. H. Cary	King & Kellum	100 " 5-story. Pl. VII.
Chatham Street, 19	J. B. Simpson	J. B. Snook	1 Store Front. Basement and Rear.
Do 65	Chatham Bank	J. B. Snook	1 "
Do 74			1 "
Do	J. B. & W. Simpson		2 " French's Hotel.
Church Street,	S. D. Babcock	T. S. Wall	1 "
"	Mr. Matthews		1 "
" cor Fulton	Mr. Phyfe	J. B. Snook	108 ft. "
Cliff Street, 22	Mr. James		1 Store Front and Rear.
College Place, 7	W. H. Grinnell	R. H. Mook	5-story " and Base't. Pl. XV, No. 7.
Cortlandt Street 3	C. & U. J. Smith		1 Store "
Do 4	C. Vanderbilt		1 "
Do 6, 8	Brown & Cushing		2 "
Do 12, 14, 16		Mr. Hurry	3 "
Do 15, 17	Mr. Dwire		2 "
Do 18			1 "
Do 19, 21			2 "
Do 20	Gilbert, Prentiss & Tuttle		1 "
Do 22	Bennett & Johnson		1 "
Dey Street, 5, 7	Noel J. Becar		2 "
Do 13	Wilson & Co		1 "
Do 15	Mr. Cox		1 "
Do 44	E. H. Main		1 "
Do 46			1 "
Duane Street, 42	Archl. Iron Works	G. H. Johnson	5-story " and Base. Sim. to Pl. VII.
Do 68, 75 to 85	Mr. Palmer	J. B. Snook	165 ft. " 5-story. Sim. to Pl. XIX.
Do 71, 73	J. B. Snook	J. B. Snook	50 ft. " and Basement.
Do 84,		J. F. Duckworth	5-story " and Basement.
Do 116			1 Store Front and Basement.
Do and Reade			2 "
Do cor Church	Dr. Lovejoy	Amzi Hill	116 ft. "
Do " Reade	East River Bank		1 Store Front.
FifthAv. 23d St, B'way&24th	A. R. Eno	Thomas & Son	277 ft. Front. Fifth Avenue Hotel.
Fourth Av	Harlem Railroad Co		Columns, &c., Engine Depot.
Do cor 23d Street		Mettam & Burke	5 Store Fronts.
Franklin Street, 73	John Mack	Renwick & Co	1 " Pl. XCII.
Do 91	"	"	1 "
Do cor Franklin Pl		Thomas & Son	53 ft. " Basement and Rear.
Do " Church	W. Watson	T. S. Wall	2 Store Fronts.
Do	"	"	2 "
Front Street	J. K. & E. B. Place	E. L. Roberts	1 "
" 166			1 "

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:			
Fulton Street, 58, 60			2 Store Fronts.
Do 115			1 "
Do 141	M. Reily		1 "
Do 186	J. Tucker		1 "
Do 198	Mr. Phyfe		1 "
Do	Union Ferry Co	Kellum & Son	Fulton Ferry House.
Gouverneur's Lane	E. Banker & Co		3 Store Fronts.
Grand Street, cor. Chrystie	Lord & Taylor	Thomas & Son	200 ft. "
Do " Allen	Mr. Donnelly	T. S. Wall	1 Store Front.
Greenwich Street, 52		Griffiths	1 "
Do 218		C. Mettam	1 "
Do 282		Thomas & Son	1 "
Do	A. T. Lagrave		1 "
Do	Mr. Platt		1 "
Do	W. B. Astor		1 "
Howard Street,			1 "
Hudson St. 250	Mr. Sloan		1 "
Do 277, 279, 281	B. Newhouse		3 "
Do 297	A. M. L. Scott		1 "
Do cor Broome	J. S. Hasbrook		1 "
Do " Jay	Am. Express Co	J. W. Ritch	204 ft. "
Irving Pl., " 15th	Manhattan Gas Co	W. W. Gardiner	1 Office Front.
John St., 19	F. W. Lasak		1 Store Front.
Do 20	Mr. Young		1 "
Do 22			1 "
Do 75	J. K. Herrick	F. Diaper	1 "
Leonard St., 71		S. A. Warner	1 "
Do 73		J. F. Duckworth	1 "
Do 80	Paton & Co	J. H. Giles	1 "
Do 84	Mr. Sniffin		1 " and Basement.
Liberty St., 25, 27	W. B. Windle		1 "
Do 29	F. W. Lasak		1 "
Do 85			1 "
Do 93	J. M. Matthews		1 "
Do 95, 97	Murphy & Benedict		2 "
Do 96	Mr. McBride		1 "
Do 99	A. R. Eno		1 "
Do 103	T. Strang		1 "
Do 105	J. J. Henry		1 "
Do		J. B. Snook	1 " and Basement.
Ludlow St., near Houston		H. Fernback	4 "
Do	B. R. Winthrop		1 "
Madison Av			Columns—Ch. of Incarnation.
Maiden Lane 2	W. H. Smith		1 Store Front.
Do 4	Mr. Young		1 "
Do 6	W. H. Smith		1 "
Do 8			1 "
Do 9, 11, 13,	Swan & Co		3 "
Do 10			1 "
Do 15 and 25	W. H. Smith		2 "
Do 17, 19	J. Fellowes & H. Young.		2 " and Rears.
Do 21, 23	Fellowes & Schell		2 "
Do 22	J. E. Hyde's Sons		1 "
Do 31			1 "
Do 33	P. Murray		1 "

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:			
MaidenLane, 35	L. Murray		1 Store Front.
Do 38			1 "
Do 47			1 "
Do 51 to 61	A. H. Wood		5 Store Fronts.
Do 56	W. B. Windle	J. B. Snook	1 "
Do 58			1 " and Basement.
Do 63	R. Mortimer		1 "
Do 123	R. & N. Dart		1 "
Do cor. Little Green.	Platt Bros		1 "
Do " "	W. H. Smith		3 "
Do " Nassau	Est. of J. Duidam		39 feet "
Mercer St., 5, 7		J. B. Snook	2 Store Fronts.
Do 18	A. T. Stewart	Kellum & Son	5-story Front and Basement.
Do cor Howard	A. R. Eno		1 Store Front.
Do Rear 555 B'way.	John Taylor		1 Store Rear.
Do	W. Gibson		1 Store Front.
Mott St.,	I. M. Singer & Co.	G. H. Johnson	Sewing Machine Manfy. Pl. IV. and VI.
Murray St., 6			1 Store Front.
Do 8, 10	E. Parmly		2 "
Do 14	J. L. Platt		1 "
Do 16	O. Thompson		1 "
Do 17 to 29	H. D. Aldrich	S. A. Warner	7 "
Do 36	Dr. Scott		1 "
Do 37, 39	A. Higgins		2 "
Do 41		Thomas & Son	1 "
Do 45	Mr. Hutchings	S. A. Warner	1 "
Do 46		S. A. Warner	1 "
Do 47	W. Sturtevant	J. C. Wells	1 "
Do 49			1 "
Do 55			1 "
Do cor College Pl.	Mr. Stevens		189 ft. "
Do			1 Store Front.
Do	Dr. Hunter		1 "
Nassau St., 33			1 "
Do 52, 54	C. & U. J. Smith		2 "
Do 115 to 121	N. C. Platt	J. Sexton	4 " and Rears, Pl. XXXV. No. 34
Do cor Maiden Lane.	Mr. Swan		2 "
Do	Mr. Taylor		1 "
Do	Mr. Youngs		1 "
New William St., 10	W. H. Smith		1 "
Park Place 3	F. Pares	King & Kellum	1 Store Front and Basement.
Do 9, 11	E. Parmly		2 "
Do 12	Judge Roosevelt		1 "
Do 17	J. L. Platt		1 "
Do 19	O. Thompson		1 "
Do 21	E. B. Strange		1 "
Do Church & Barclay	C. W. & J. T. Moore	Thomas & Son	147 ft. "
Do College Pl. & Barclay	Chittenden, Bliss & Co.	S. A. Warner	138 ft. "
Do and Murray	Lathrop & Ludington	"	117 ft. "
Do cor. Church	Wm. Watson		167 ft. "
Do "	W. G. Hunt & Co	King & Kellum	145 ft. "
Do " College Pl.	Thomas Hunt	"	150 ft. "
Do	E. Parmly		1 Store Front.
Do	D. B. St. John		2 "
Do	Christie & Constant		1 " and Basement.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:			
Park Place.	T. Slocum		100 ft. Front.
Do	Spofford & Tileston		2 Store "
Park Row, 13, 15	Mr. Bangs		2 "
Do	W.B.Astor & J.J. Phelps.	Thomas & Son	5 "
Pearl St., 282	H. V. Hendrick		1 "
Do	W. H. Cary	King & Kellum	2 "
Do	Mary Chesebrough	"	1 " and Basement.
Do	M. Halsted	"	1 "
Do	J. H. Coster	"	1 "
Do	R. Carmley	"	1 "
Do	P. Williams	"	1 "
Do	L. G. Morris	"	1 "
Do		"	38 ft. "
Do cor. Moore			1 Store Front.
Peck Slip, " Front	J. S. Harris & Co.	R. G. Hatfield	103 ft. Front.
Pine St., 11	A. J. Cipriant		2-story Front.
Reade St., 74	Mr. Bradshaw		1 Store Front.
Do 97, 99, 101	A. Higgins	J. F. Duckworth	3 "
Do 103	Gilbert Estate		1 " and Rear on Chambers St.
Do 104			1 "
Do cor. Church	Read & Bradshaw	G. H. Giles	86 ft. " and Basement.
Do " "		Kellum & Son	160 ft. " "
Do	Bliss, Briggs & Douglas.	S. A. Warner	100 ft. "
Do	R. H. McCurdy		50 ft. " and basement.
Do	J. Q. Jones		5-story " Pl. XV., No. 8.
Sixth Avenue, No. 206	G. P. Rogers		1 Store Front.
Third " 805		W. T. Beers	1 "
Third Ave., cor. 34th St	H. Hughes	do	56 feet Store Front.
Third and Fourth Av., Astor Place and Seventh St.	Peter Cooper	F. A. Petersen	[Inside Cast Iron Work. 326 ft. Store Front, Cooper Inst., and all
Twenty-fourth Street	A. R. Eno		Fifth Avenue Hotel Front.
University Place	Society Library	Thomas & Son	Main Cornice & Balust'de. Pl. XX., No. 93.
Vesey St., No. 22	W. Morris		1 Store Front.
Do 36	S. Sutton		1 "
Do 45	J. Osborn		1 "
Do	S. Sutton		50 ft. Store F'nt, 5-story, sim. to Pl. LVIII.
Walker St., No. 24	M. H. Litchstein	King & Kellum	1 Store Front and Basement.
Do 36	T. Lewis		1 "
Do 38	Mr. Lewis		1 "
Do 44	G. Johnson	Thomas & Son	1 "
Do 48, 50	Mr. Lane	R. G. Hatfield	2 " [XV., No. 7.
Do 61	Mrs. Goelet		5-story Front and Basement, similar to Pl.
Do	J. Lee	Kellum & Son	5 " " " " sim. to Pl. CII.
Wall St., Nos. 8 to 20	J. G. Pearson and others.	J. G. Pearson	6 Store Fronts, 2-story, similar to Plate XXXVII., No. 17.
Do 49			1 Store Front.
Do	Mechanics' Bank	R. Upjohn & Co	Dome and Lantern, 126 feet circumference.
Warren St., Nos. 4, 6	S. V. Hoffman		2 Store Fronts.
Do 8	A. M. Lyon		1 "
Do 11	J. Lee	R. G. Hatfield	1 "
Do 12, 14	A. Higgins		2 "
Do 15	F. E. Gilbert		1 "
Do 16	T. March		1 "
Do 17, 19	Henrys, Smith & Townsend		2 "
Do 18, 20	Mr. Cleveland		2 "

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
NEW YORK:			
Warren Street, 23, 25	C. A. Bandouine	Mr. Gardiner	51 ft. Store Front.
Do 24	Mr. Martin		1 "
Do 26, 28, 30	Allan, McComb & Langlois		3 "
Do 37, 39	T. U. Smith & J. J. Henry		2 "
Do 38			1 "
Do 40	C. A. Bandouine	Mr. Gardiner	1 "
Do 41, 43	T. Suffern	J. W. Ritch	2 "
Do 42	J. A. Stevens		1 "
Do 49	Rogers & Walker	S. A. Warner	1 "
Do 51	Mr. Center		1 "
Do 53	F. E. Gilbert		1 "
Do 55	Judge Whiting		1 "
Do 76	Mrs. P. Bonnet	Thomas & Son	1 "
Do cor. Church	H. D. Aldrich	S. A. Warner	2 "
Water St., No. 120	A. Hendricks		1 "
White do 79	S. Kohnstamm	Thomas & Son	1 " [Pl. CII.
Do cor. Franklin Pl.	S. H. & J. E. Condict	Kellum & Son	73 ft. " 5-story, Basement and Rear,
Whitehall St.	Union Ferry Co	J. Kellum	South and Hamilton Ferry Houses.
Do	Corn Exchange	E. L. Roberts	Iron Work Corn Exchange.
William St., No. 93	A. H. Ward		1 Store Front.
Do 128			1 "
Do 130	A. B. &. D. Sands		1 "
Do 163	B. A. Field		1 "
Do cor. Ann	S. N. Livingston		1 "
Do	Great Western Ins. Co.	Renwick & Sands	Insurance Building.
Worth St.		S. A. Warner	315 feet Store Front and Basement.
Do No. 39		J. F. Duckworth	1 Store Front.
Do 41		J. F. Duckworth	"
Do 43, 45	Mr. Nesmith	S. A. Warner	50 ft. "
Oswego, N. Y.	Oswego Hotel Co	W. T. Beers	300 feet Front.
Do	T. Kingsford & Son		Oswego Starch Factory.
Panama	Panama Railroad Co		Railroad Depot.
Do	do		Verandah, &c.
Peterboro', C. W	R. Nicholls		2 Store Fronts. Plate XXVIII., No. 65.
Petersburg, Va	D. A. Paul		1 Store Front.
Do	Lyon, Abraham & Davis		1 "
PHILADELPHIA:			
Arch St., No. 116	Jones, White & Oo.		1 "
Do 124	W. H. Hart		1 "
Chestnut St., 49	A. Masson		1 "
Do 51	do		1 "
Do 52	J. A. Gendell		1 "
Do 54	W. W. Keen		1 "
Do 56	J. A. Gendell		1 "
Do 61	do		1 "
Do 63	do		1 "
Do 65	Mr. Landreth		1 "
Do 85	Mr. Lewis		1 "
Do 87	do		1 "
Do 115	W. W. Keen		1 "
Do 123	S. H. Hoxie		1 "
Do 136	Bailey & Co		1 "
Do	J. F. Fisher		3 Store Fronts.
Do	Dr. Swaim		3 " Swaim's Building.
Do	Jules Harrel		1 Store Front.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
PHILADELPHIA:			
Chestnut St	Mr. Dunbar		2 Store Fronts. Pl. XXIV., No. 25.
Do	Girard Estate		2 " Girard Buildings.
Do	Williamson & Mellor		3 " Pl. LXIV., No. 25.
Do	A. Foit		1 Store Front.
Commerce St	C. C. Cope		1 "
Lodge Alley	Williamson & Mellor		3 Store Fronts.
Do	Mr. Dunbar		2 "
Market St., No. 81	C. H. Fisher		1 Store Front.
Do 147	M. L. Hollowell		Rolling Shutters for Front.
North Third St	Mr. Madora		1 Store Front.
Sixth St	D. Landrith		2 Store Fronts.
South Fourth St	R. T. Shepherd		2 "
Do	W. Ford		1 Store Front.
Do	J. A. Gendell		3 Store Fronts.
Strawberry St	W. W. Keen		2 "
Third St	Mr. Ballinger		2 " Pl. XXXV., No. 34.
Do	Mr. Fassit		1 Store Front.
Do	Siegur, Lamb & Co		1 "
Do	Faust & Wineburne		1 "
Do	Mr. Stone		1 "
Do	Towns & Sharpless		1 " 2 stories.
Washington Ave	Penn. Railroad Co	G. H. Johnson	Grain Warehouse. Plates LX., LXI., LXII. 107×125 ft. 5 stories. Fire-proof.
Pittsburg, Penn	Mr. Yeager		1 Store Front.
Do	A. A. Mason & Co		1 "
Do	C. H. Paulson		2 Store Fronts.
Do	J. Brown		2 " sim. to Pl. XXXV., No. 34.
Pittsfield, Mass	J. C. West		3 "
Do	Plumpkit & Hartbut		1 Store Front.
Portland, Me	H. N. Jose		2 Store Fronts.
Providence, R. I	G. A. Howard		475 feet Store Fronts.
Do	Tolman & Bucklin		5 Store Fronts.
Do	Wm. Andrews		2 "
Do	Mr. Duncan		8 "
Do	S. Dexter		2 "
Do	B. D. Wheedon		2 "
Do	H. Rogers		2 "
Do	J. Arnold		4 "
Richmond, Va	Stebbing, Darricott & Co		3 "
Do	W. Barrett		5 "
Do	Kent, Payne & Kent		2 "
Do	J. P. Ballard		1 Store Front.
Do	O. A. Stryker		Rolling Shutters for Front.
Rio Janeiro, Brazil	Dr. T. Rainey	J. Whyte	Ferry Ho., 100 ft. Front. Pl. LXXXVIII.
Rochester, N. Y	Elwanger & Barry		75 feet Store Front.
Do	Mr. Erricson		86 " "
Do	W. A. Reynolds		58 " "
Do	Samuel Wilder		1 Store Front.
Do	D. W. Powers		1 "
Rome, N. Y	Hill, Brothers & Co		1 "
Sacramento, Cal			1 "
San Francisco, Cal	R. M. Sherman		2 Store Fronts.
Do	G. R. Jackson & Co		1 Store Front.
Do	J. B. Snook	J. B. Snook	2 Store Fronts.
Do			118 feet Store Front.

LOCATION.	PROPRIETOR.	ARCHITECT.	DESCRIPTION.
San Francisco, Cal	.....	.....	34 feet Store Front.
Savannah, Ga	S. C. Deming	.....	2 Store Fronts.
Scranton, Penn	Mr. Shopland	.....	1 Store Front.
Sharon Springs, N. Y	.....	L. Burgher	Pavillion over Spring.
Springfield, Mass	Foot & Co	.....	4 Store Fronts.
Do	D. W. Barnes	A. L. Chapin	1 Store Front.
Do	John Madden	.....	1 "
Stamford, Conn	Augustus Weed	M. B. Wolsey	38 feet Store Front and Balcony.
Syracuse, N. Y	Dillaye, Brothers	.....	3 Store Fronts.
Troy, N. Y	H. E. & W. Allendorph.	.....	1 Store Front.
Do	Jacobs & Caswell	.....	1 "
Do	Troy City Bank	.....	38 feet Store Front.
Do	L. Smith	King & Tecknitz	1 Store Front.
Troy, Penn	E. W. Perrine	.....	1 "
Utica, N. Y	J. Sayer	.....	1 "
Vicksburg, Miss	J. B. Wheeler & Co	.....	1 " [XII.
Watervliet, N. Y	U. S. Government	.....	Arsenal Storehouse, 100 by 196 feet. Pl.
Do	do	.....	Arsenal. Iron Work.
Washington, D. C	do	.....	Extension Congressional Library.
Do	do	.....	Patent Iron Lathing Extension, Treasury
Do	do	.....	Iron Work, Ford's Theatre. [Build'g.
Wilmington, N. C	W. A. Barry	.....	1 Store Front.

ARCHITECTURAL IRON WORKS.

D.D. Badger & Others, Proprietors.

OFFICE, 42 DUANE ST.

D.D. BADGER. PRES.

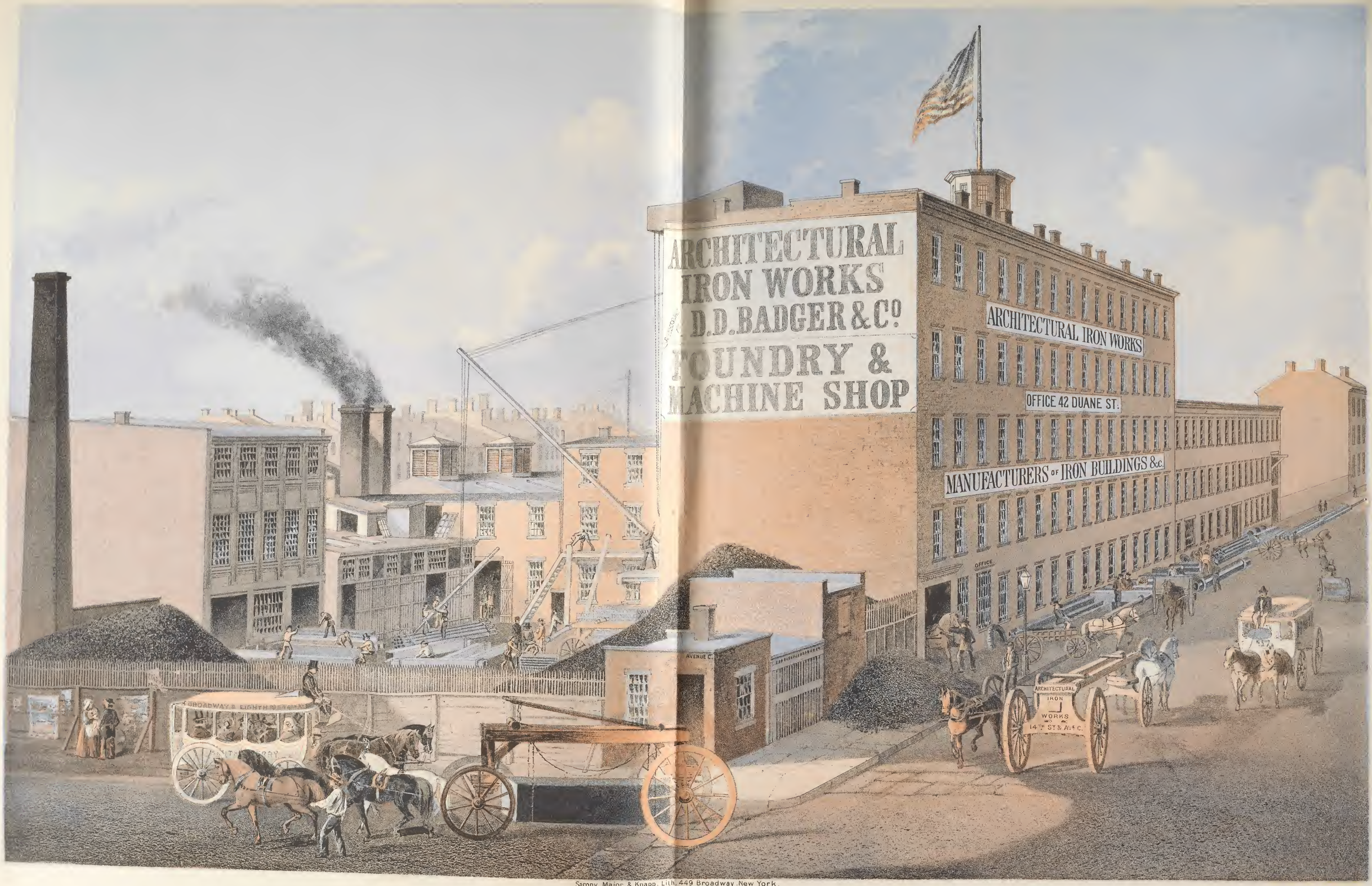
N. CHENEY. VICE-PRES.

J.M. REED. TREAS.

W.F. NISBET. SEC'Y

WORKS, 13th & 14th Sts., betw. Avs. B & C, NEW YORK

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.



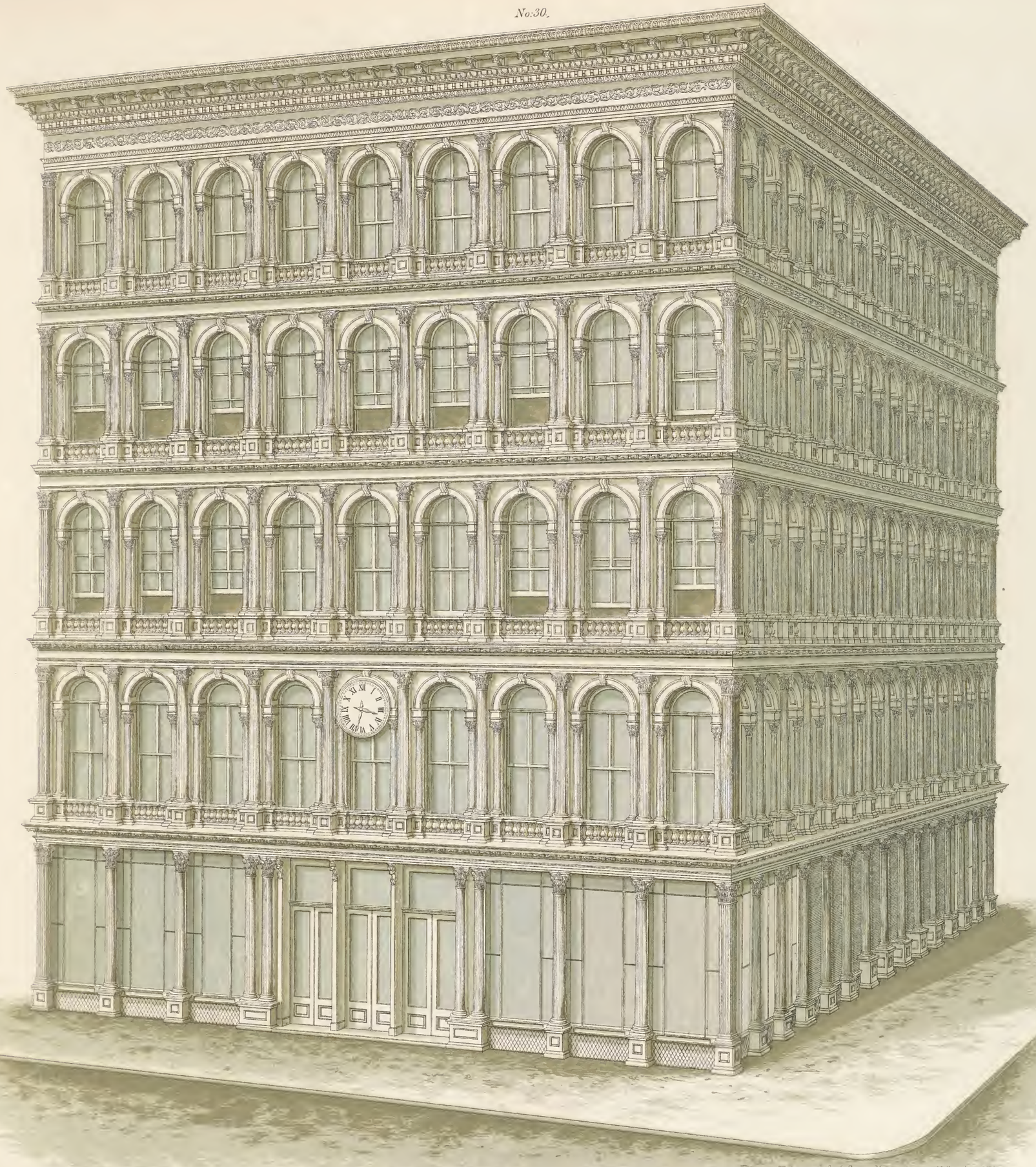
Sarony, Major & Knapp. Lith. 449 Broadway, New York.

VIEW OF THE ARCHITECTURAL IRON WORKS

13TH & 14TH STS EAST RIVER, NEW YORK.

Plate III

No:30.



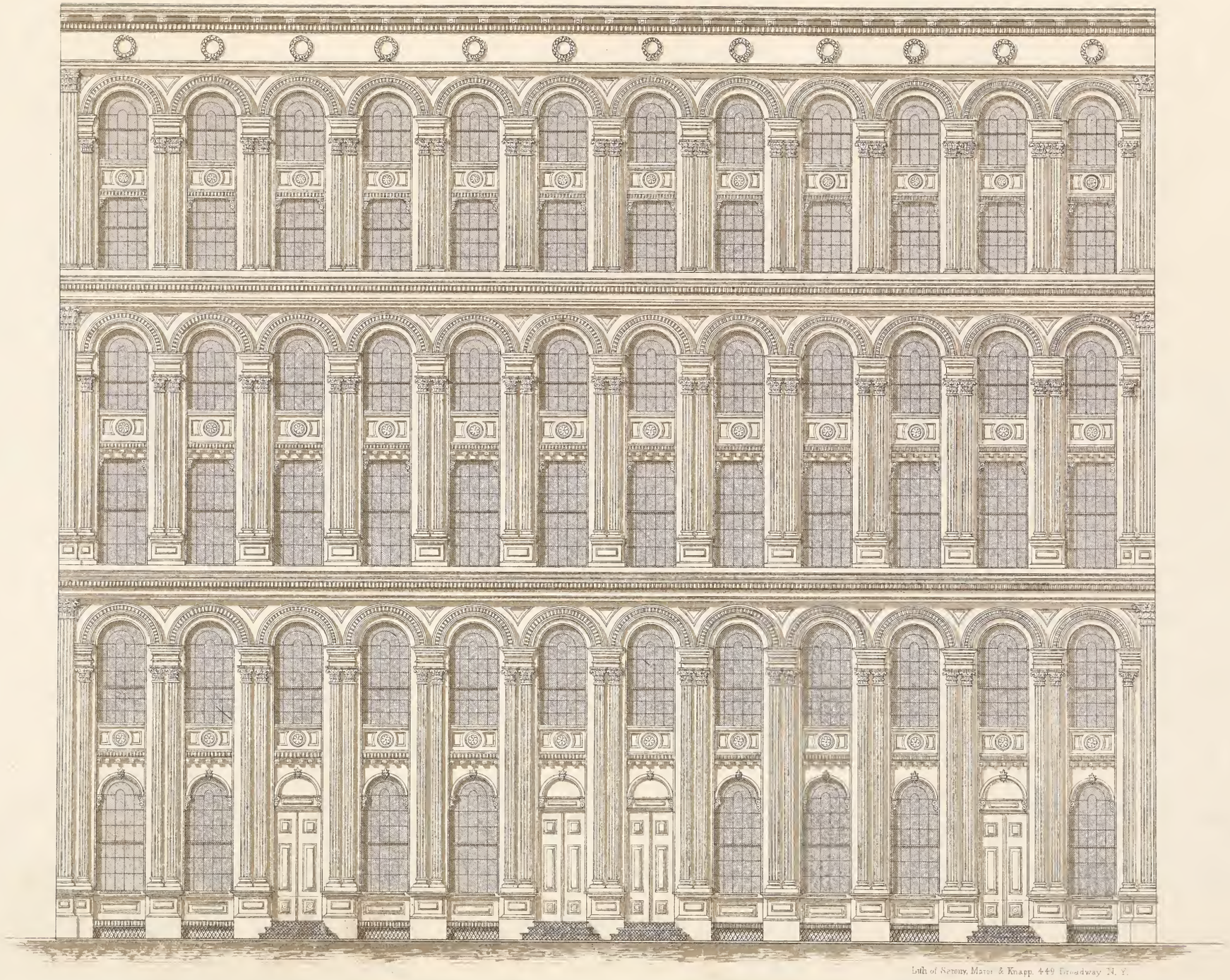
Lith of Sarony, Major & Knapp 49 Broadway N.Y.

ARCHITECTURAL IRON WORKS — NEW-YORK

Plate IV

No 15.

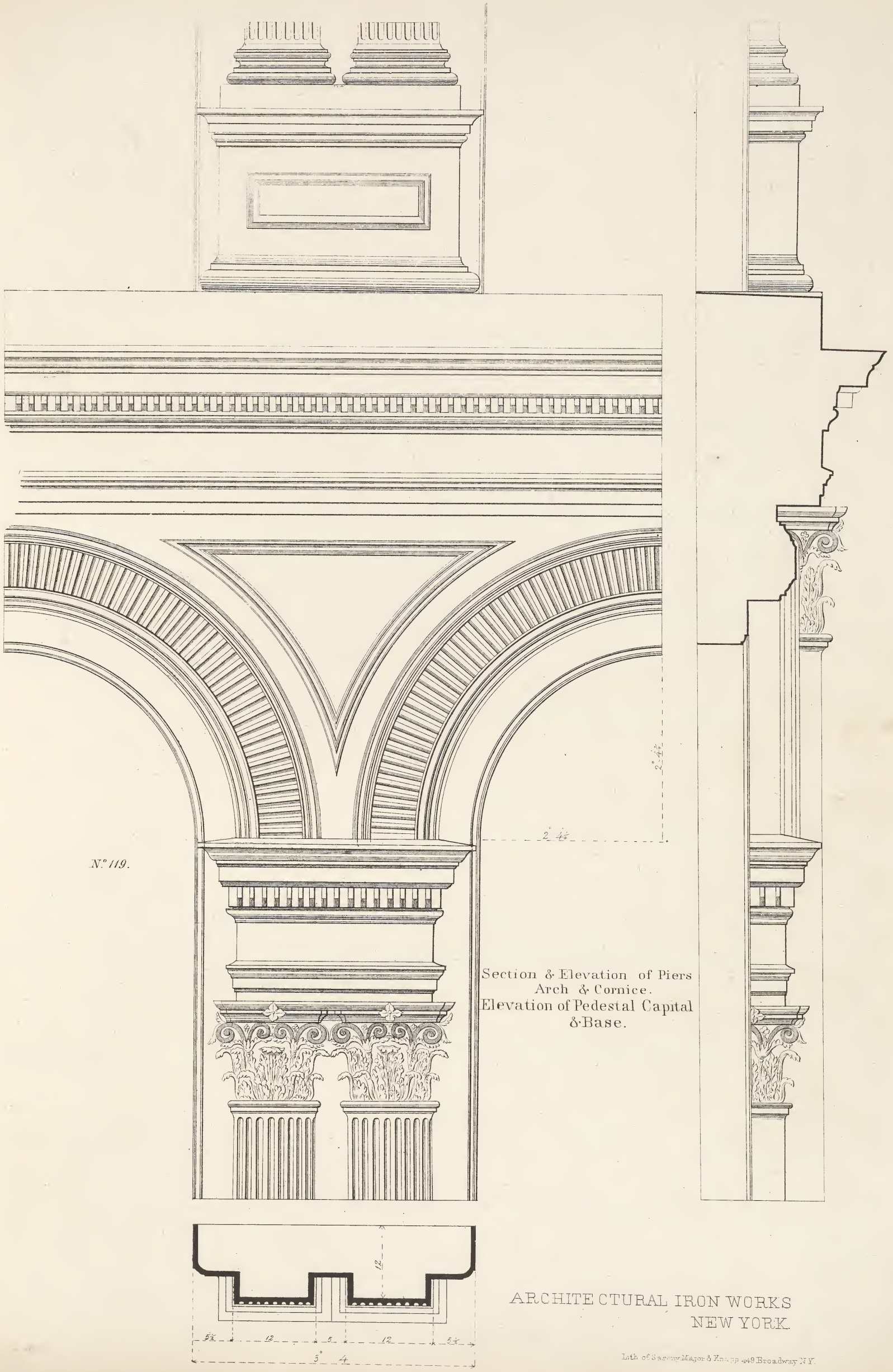
Front Elevation J. M. Singer & Co's Sewing Machine Manufactory.



Lith of Sarony, Major & Knapp, 449 Broadway N. Y.

ARCHITECTURAL IRON WORKS, NEW YORK.

Scale_ one inch to twelve feet.



N.° 119.

Section & Elevation of Piers Arch & Cornice.
Elevation of Pedestal Capital & Base.

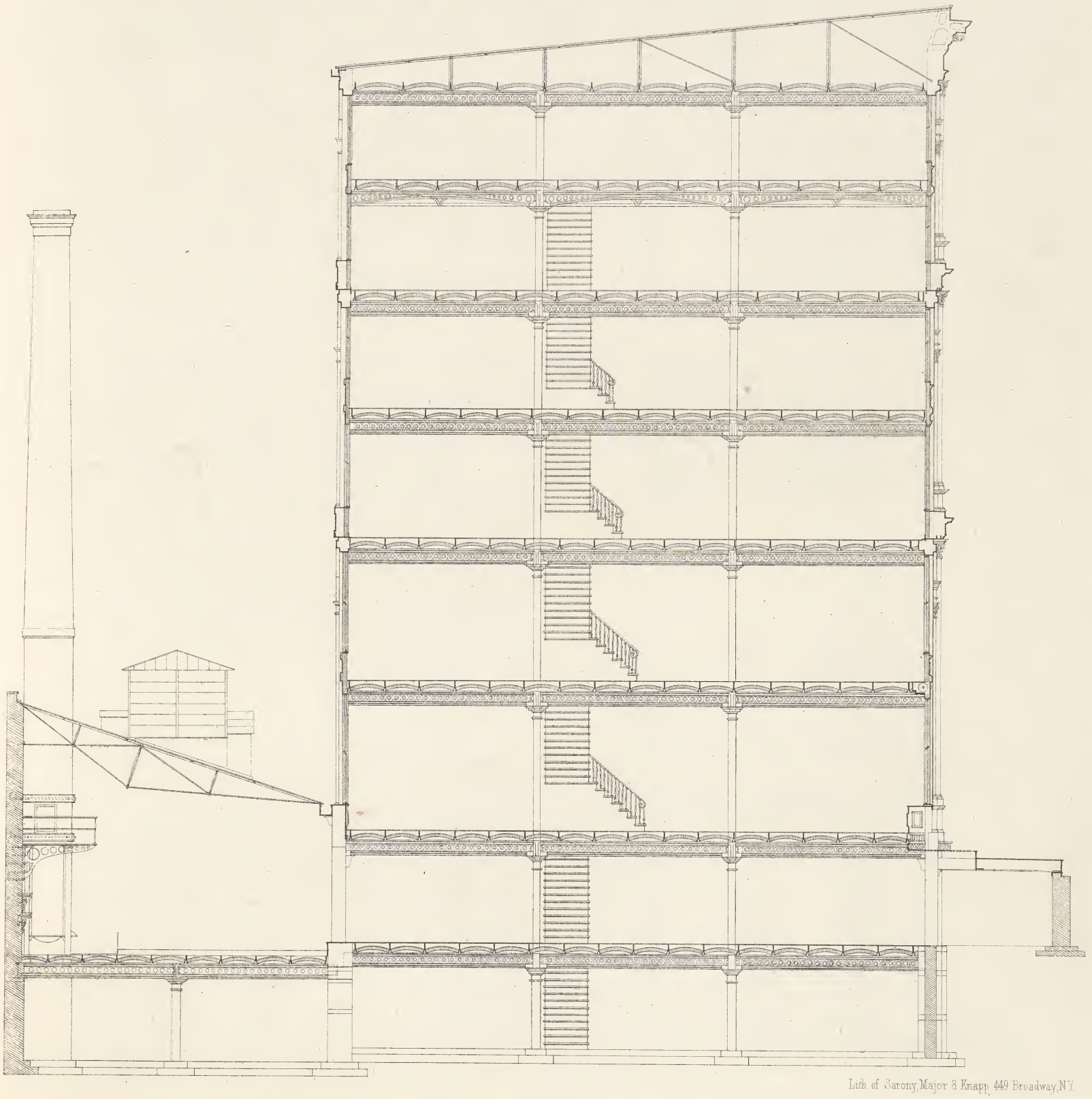
ARCHITECTURAL IRON WORKS
NEW YORK.

Lith. of Sarony Major & Knapp 449 Broadway N.Y.

Plate VI.

Section of Singer Building.

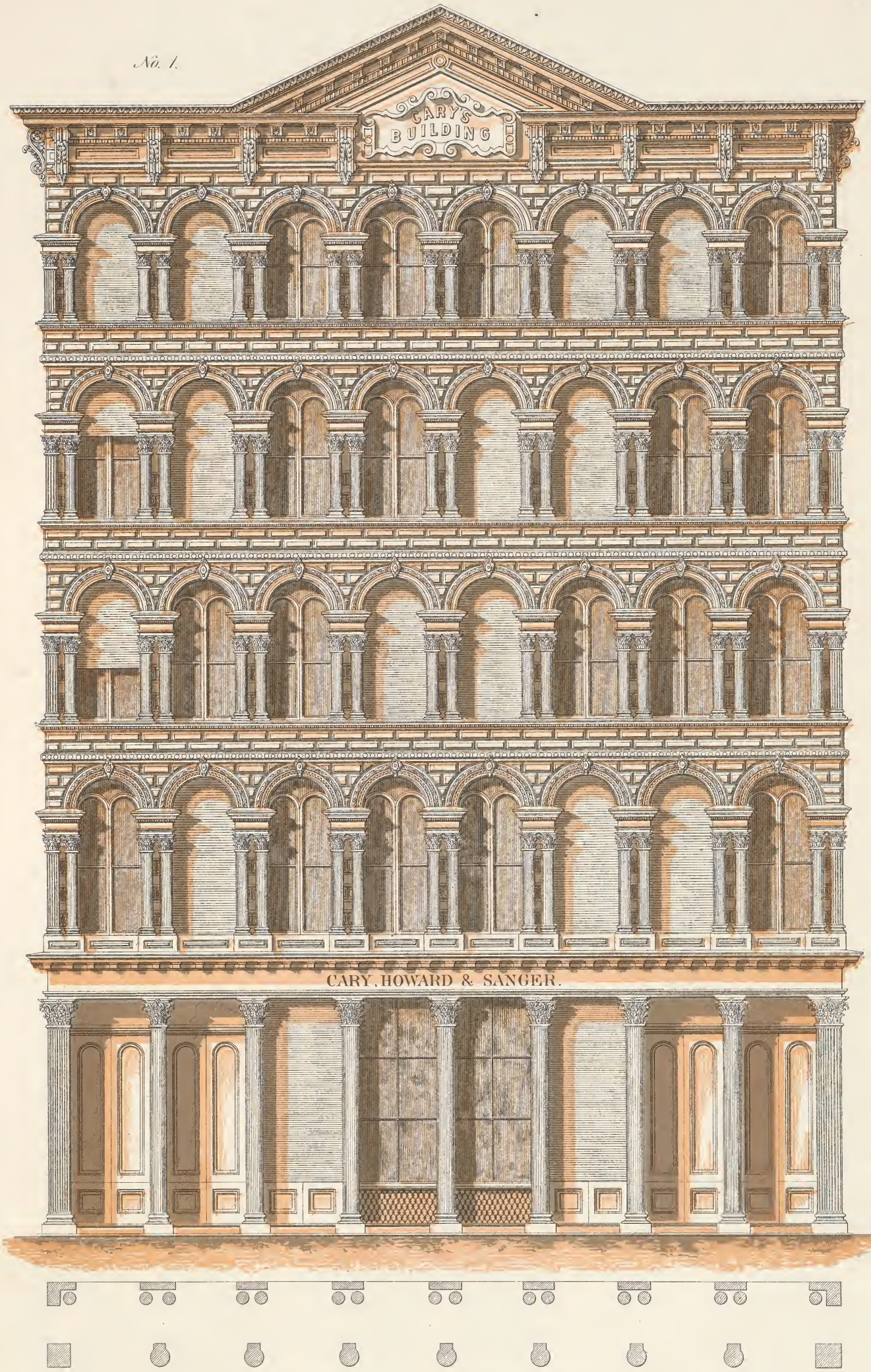
No 16



Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK

No. 1.



ARCHITECTURAL IRON WORKS,— NEW YORK.

Lith. of Sarony, Major & Knapp, N.Y.

N°117.

Elevation of Capital Cornice Pedestal & Pannel.

N°118.

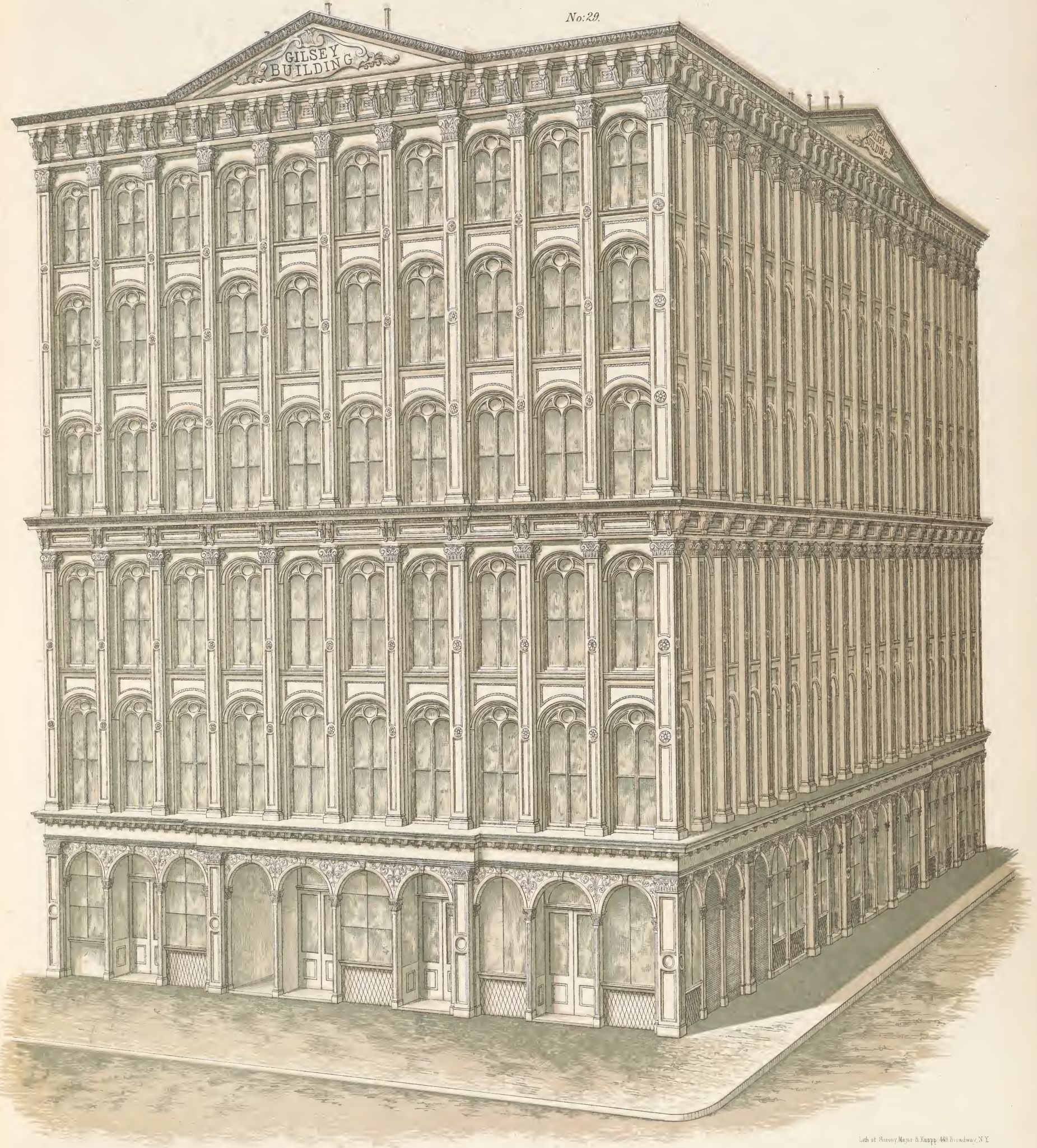
Elevation & Section of Piers, Pannels, Arches Cornices &c.

ARCHITECTURAL IRON WORKS, NEW YORK.

Lith. of Sarony, Major & Knapp 449 Broadway N.Y.

Plate IX.

No: 29.



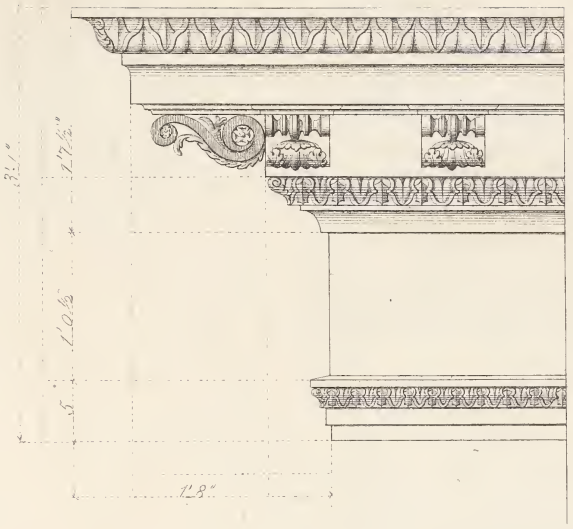
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate X

Cornices.

No. 84.



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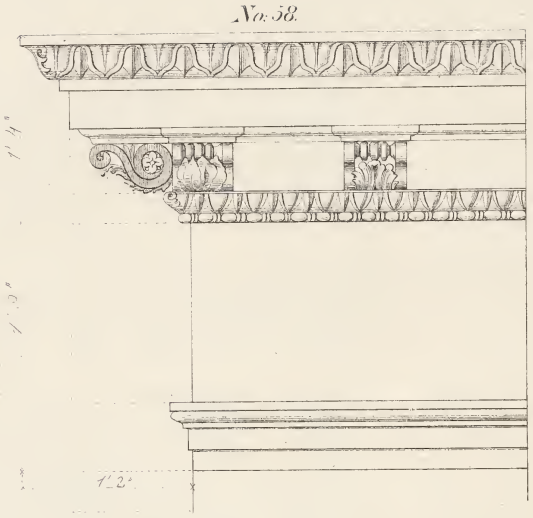

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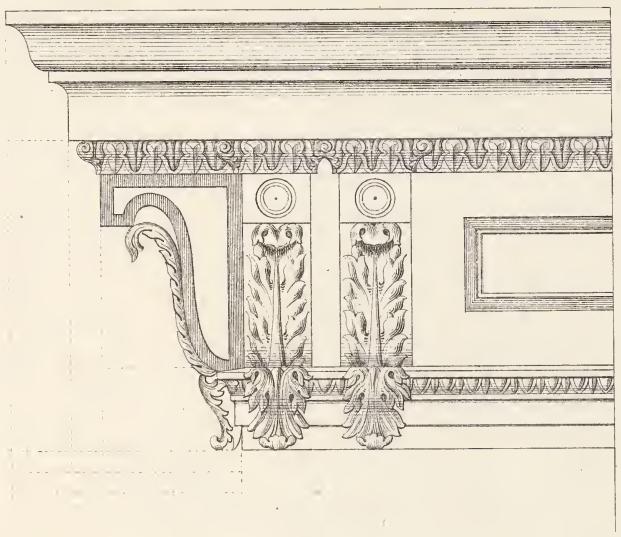

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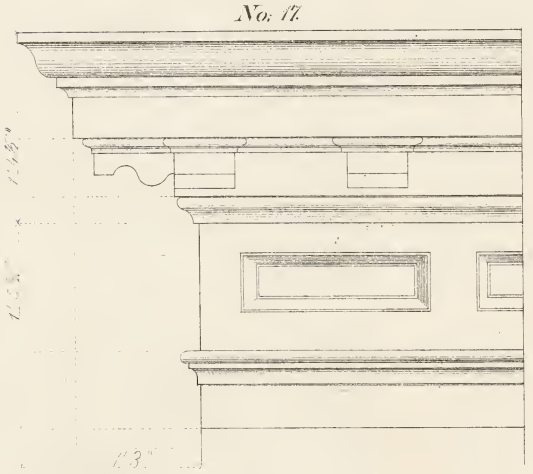

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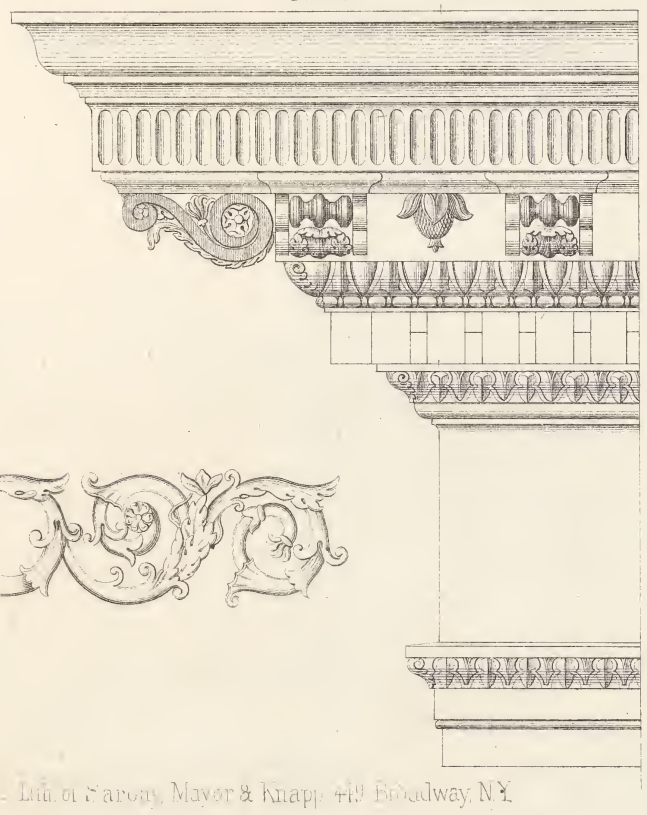

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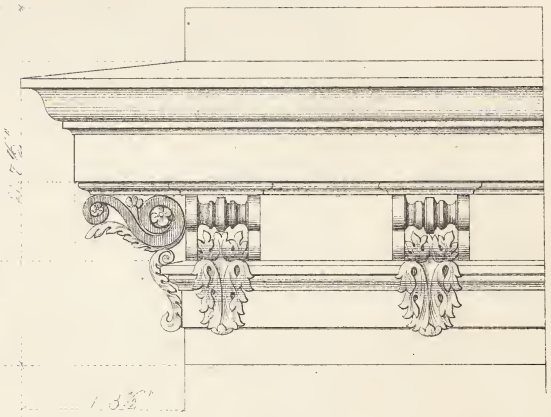

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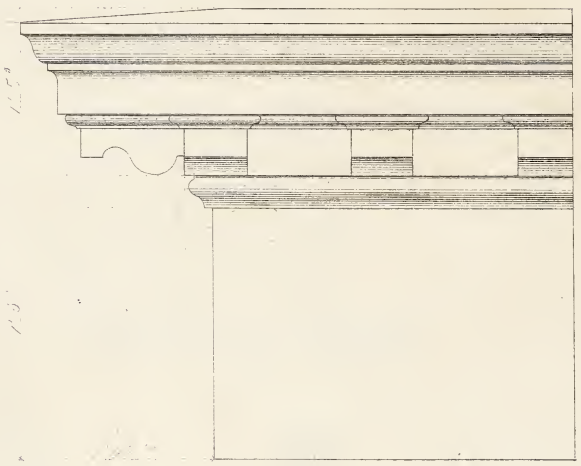


Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

Plate XI.

OFFICE OF

No:59.

Lith. of Sarony Major & Knapp 449 Broadway N.Y.

ARCHITECTURAL IRON WORKS,_NEW-YORK.

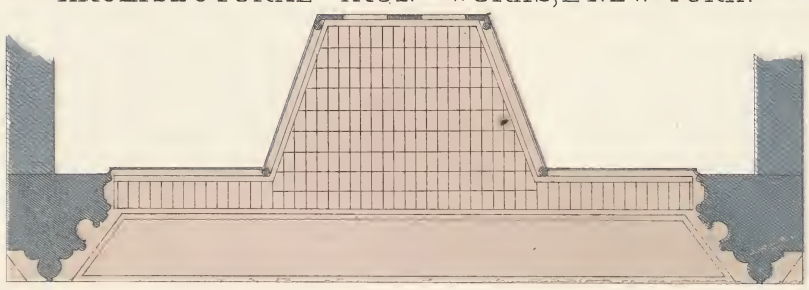
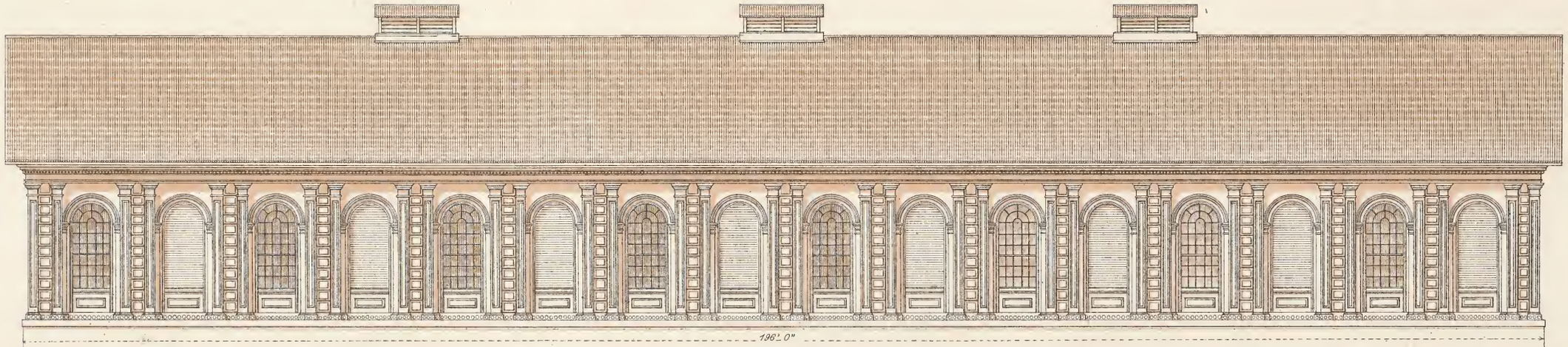


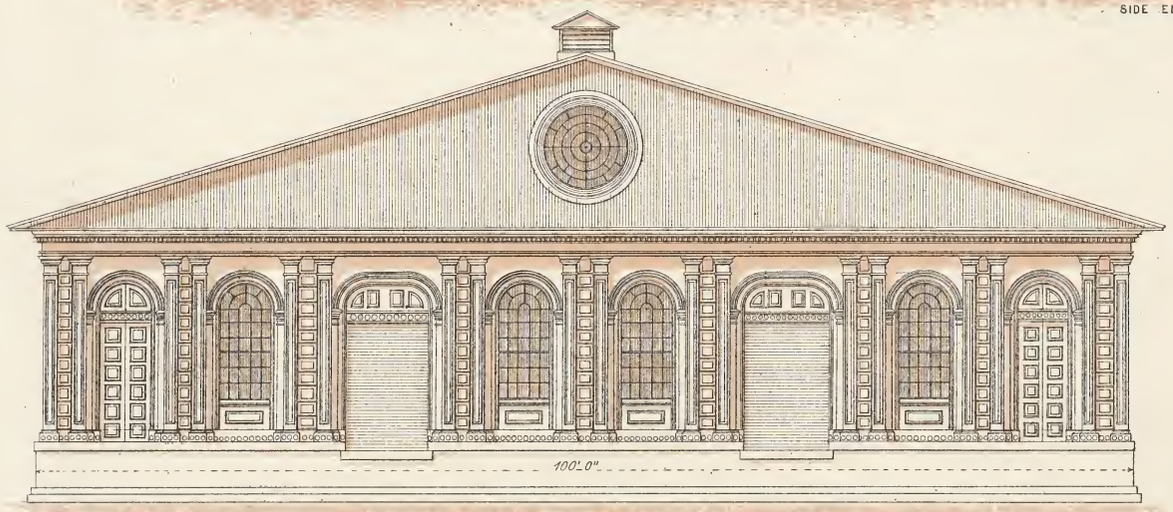
Plate XII.

Iron Store House for U. S. Arsenal,_Watervleit, N.Y.

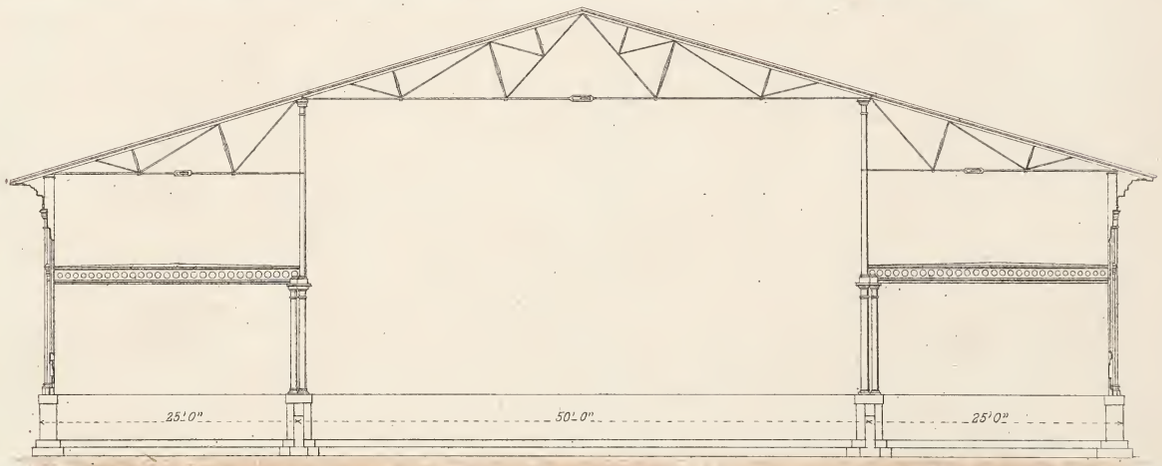
No. 56.



SIDE ELEVATION.

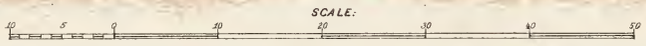


FRONT ELEVATION.



TRANSVERSE SECTION.

SCALE:

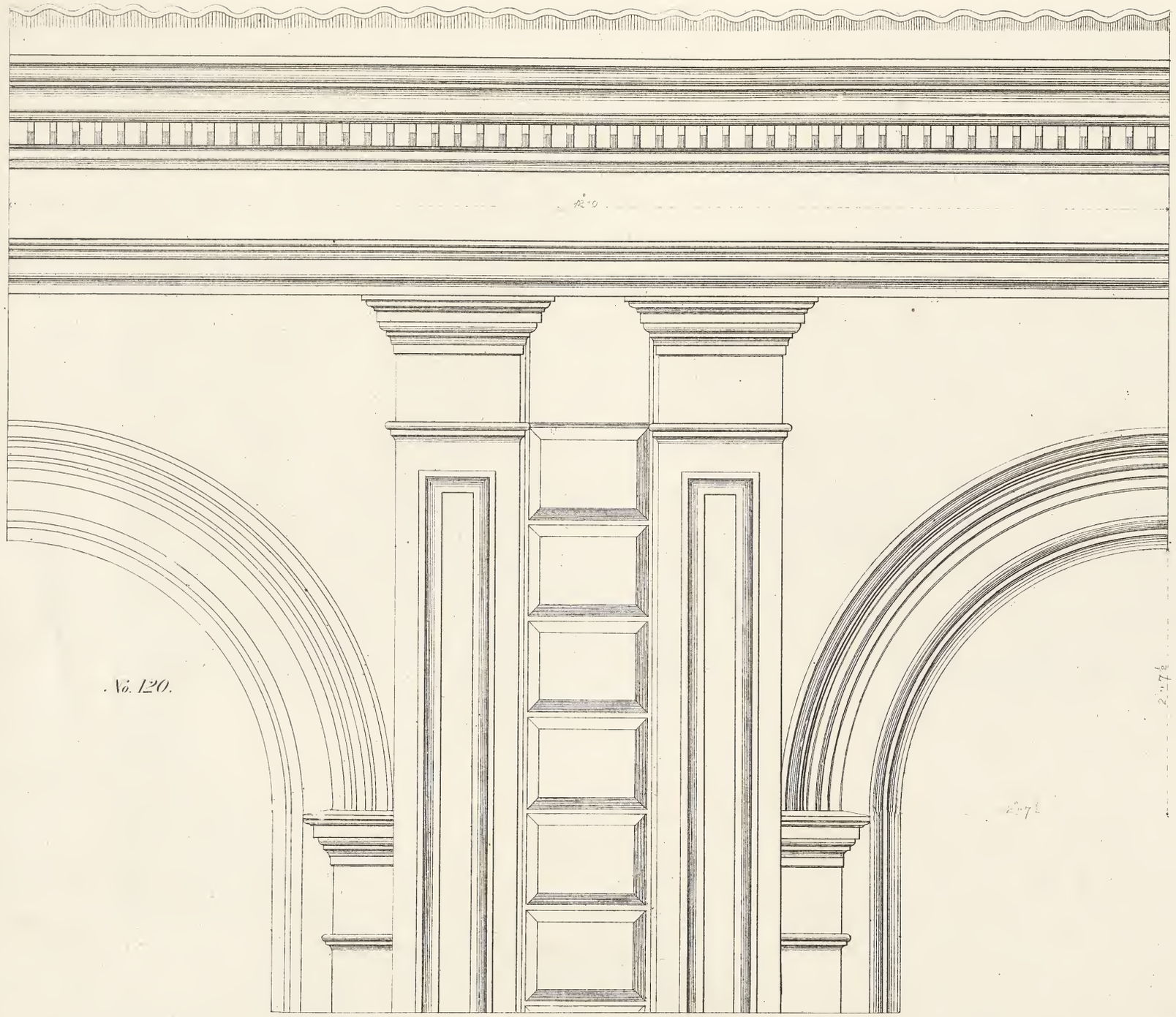


ARCHITECTURAL IRON WORKS,_ NEW-YORK.

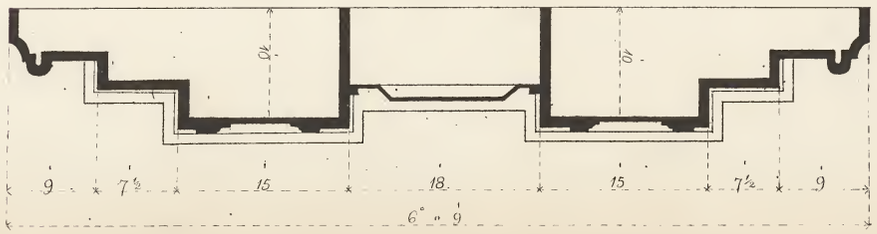
Lith of Sarony, Major & Knapp N.Y.

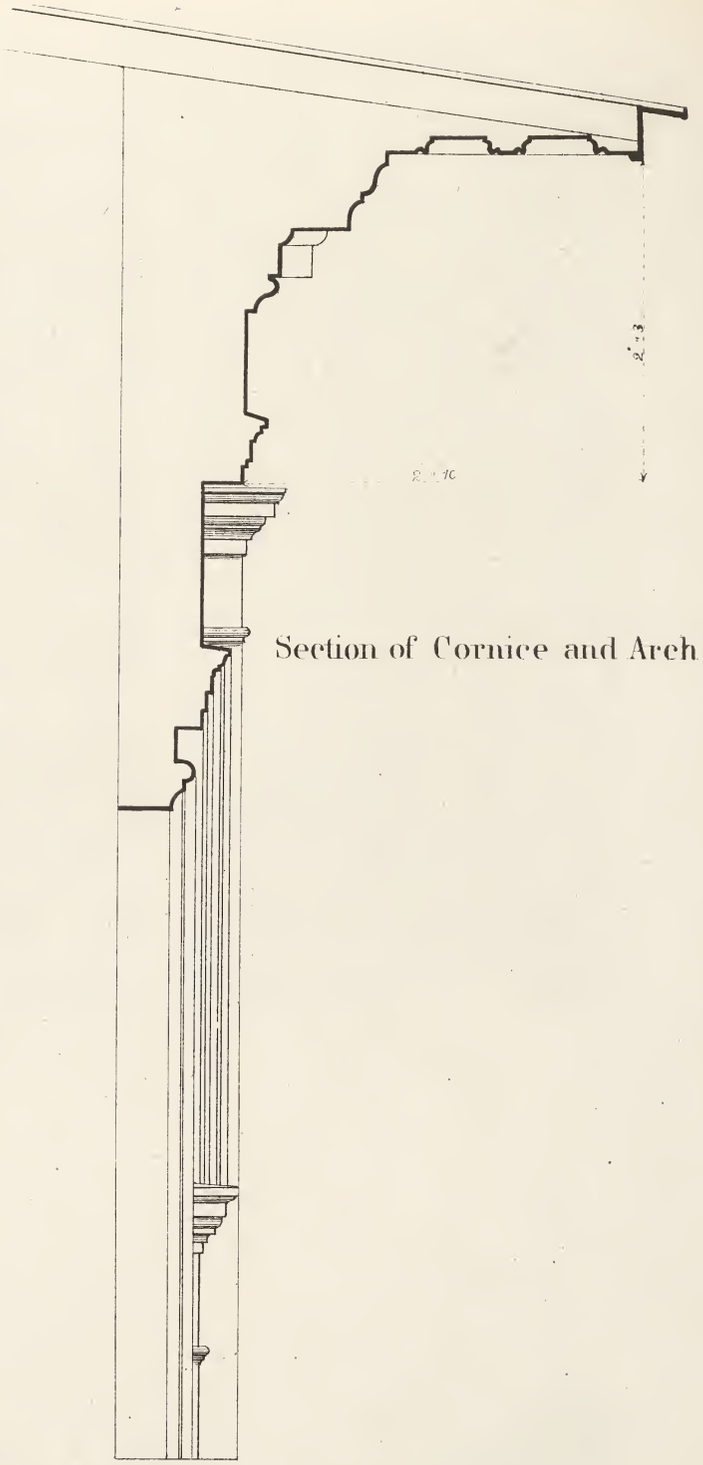
Plate XIII.

No. 120.



Section and Elevation of Pier and Arch.





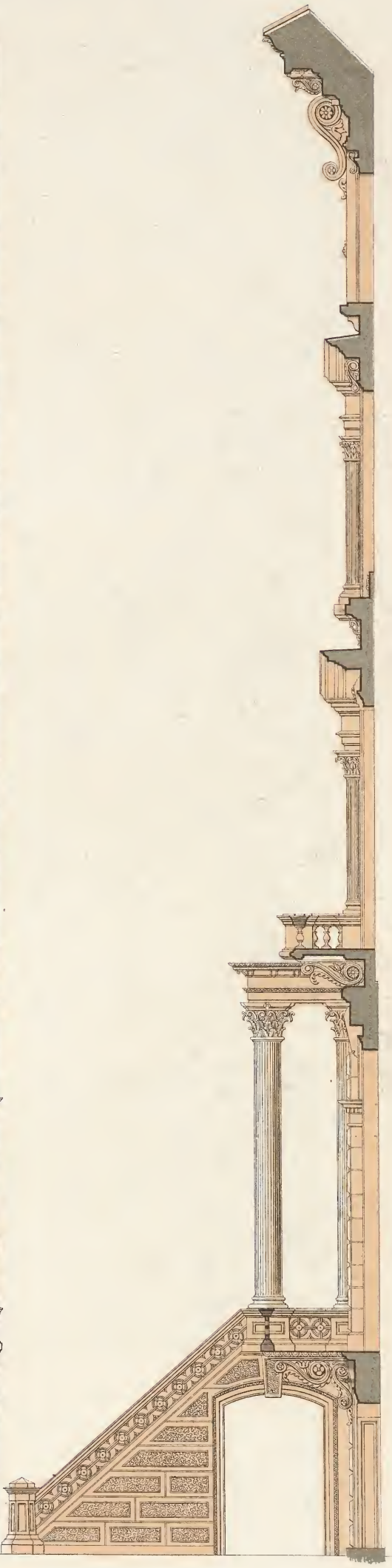
Section of Cornice and Arch.

ARCHITECTURAL IRON WORKS - NEW-YORK.

Elevation for Dwelling House

Plate XIV

No. 43.



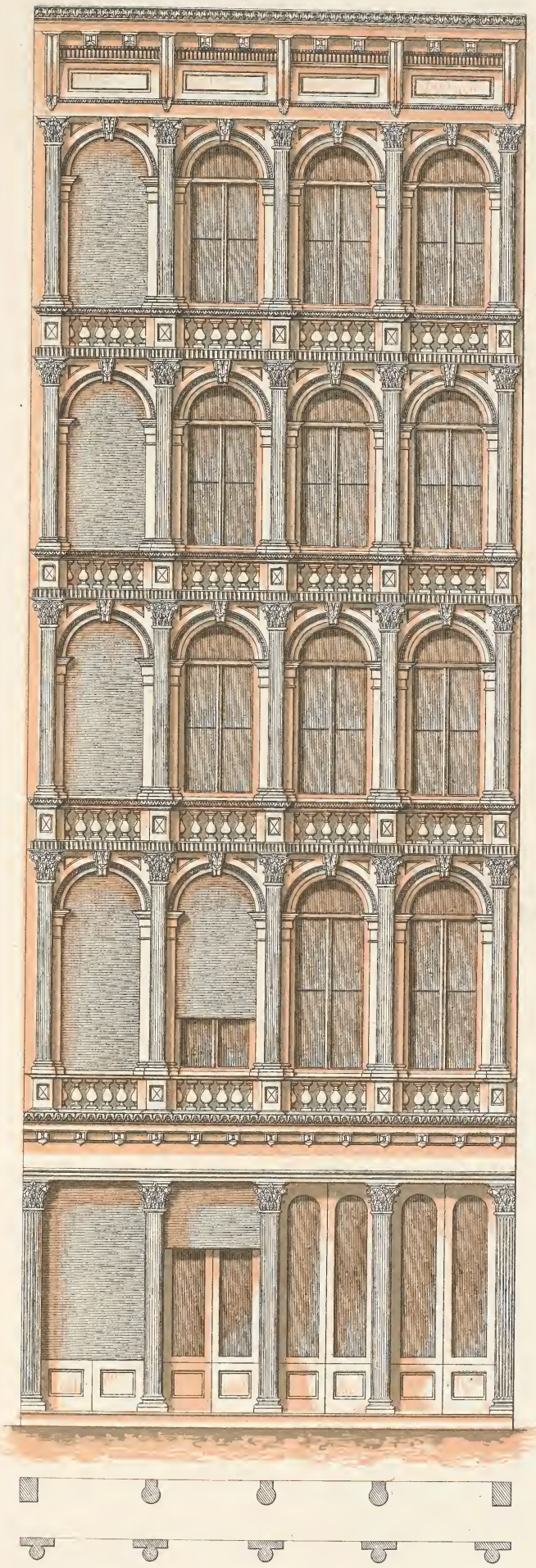
Lith. of Sarony, Major & Knapp, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate XV

Designs for Store Fronts.

No: 7.



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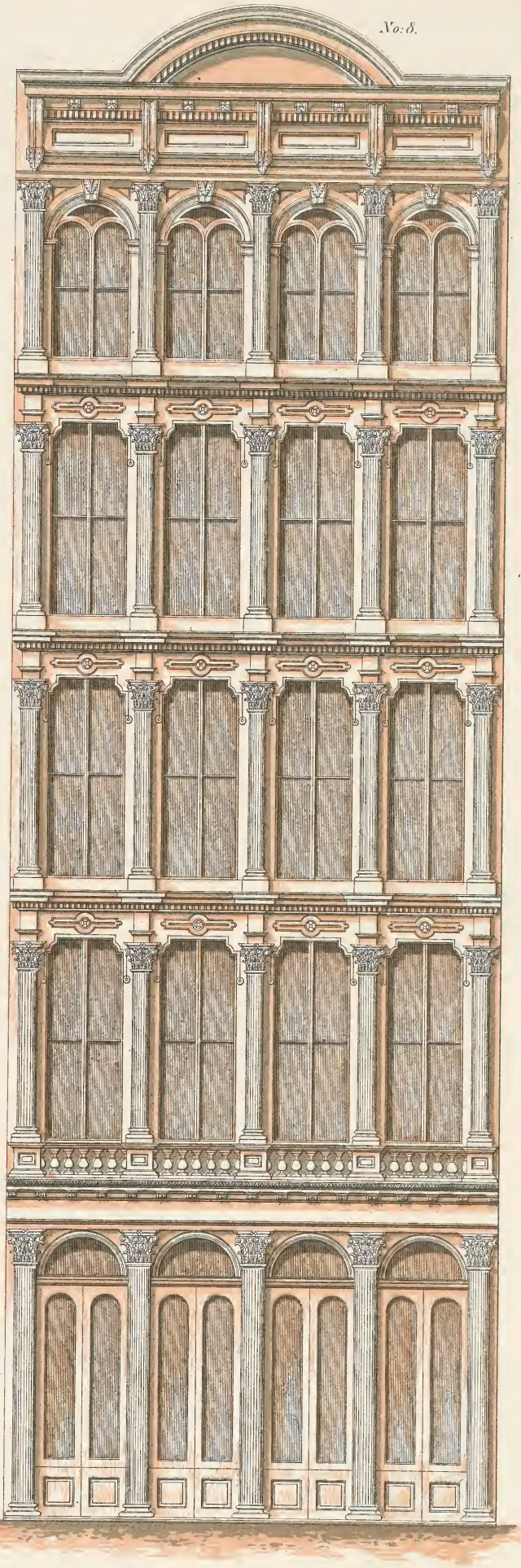
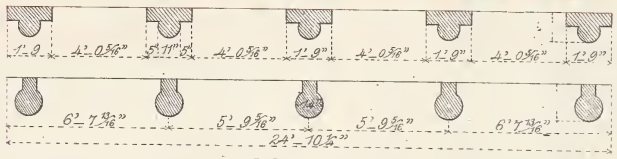




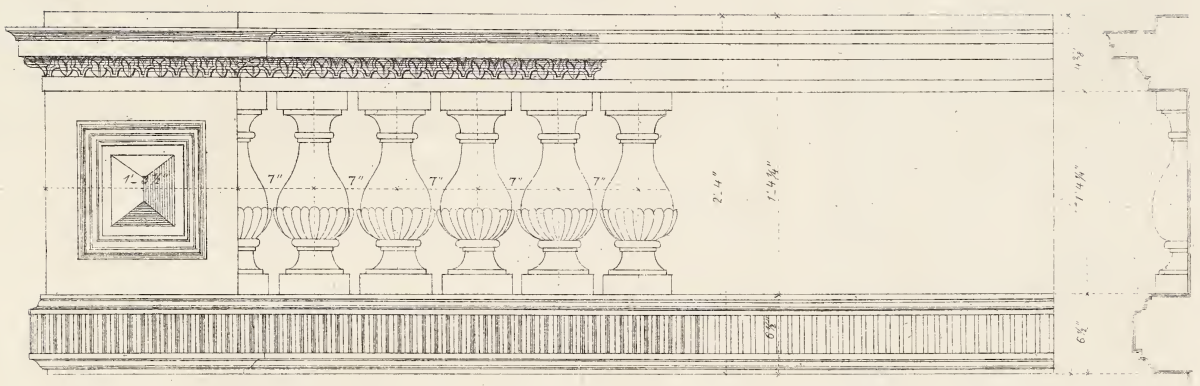
Lith. of Sarony, Major & Knapp. 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Plate XVI

Cornices Balustrades and Pedestals.

No. 111.



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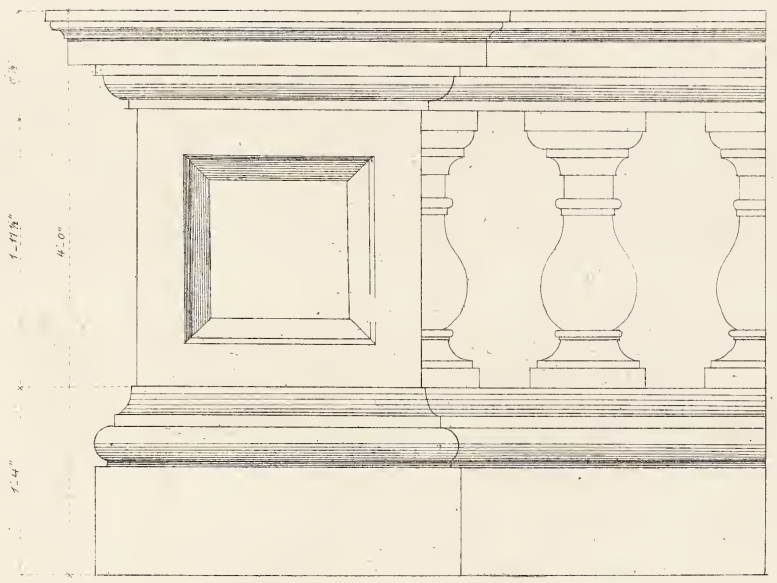

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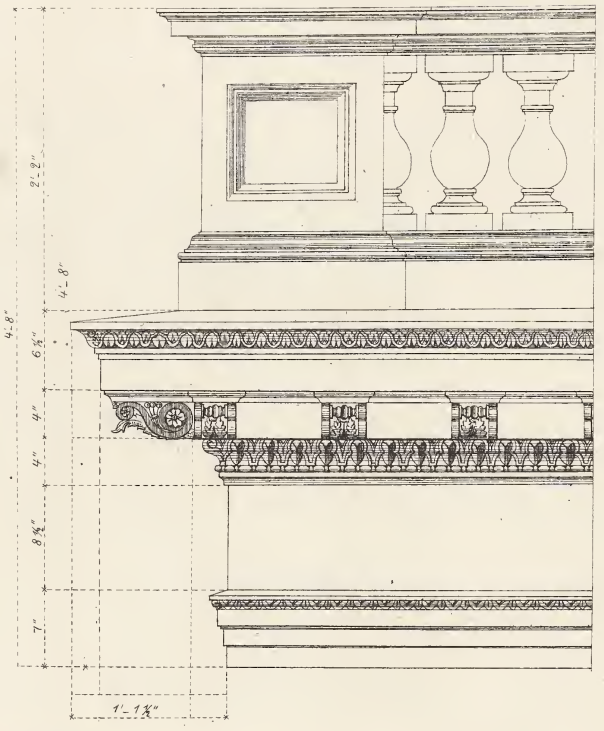
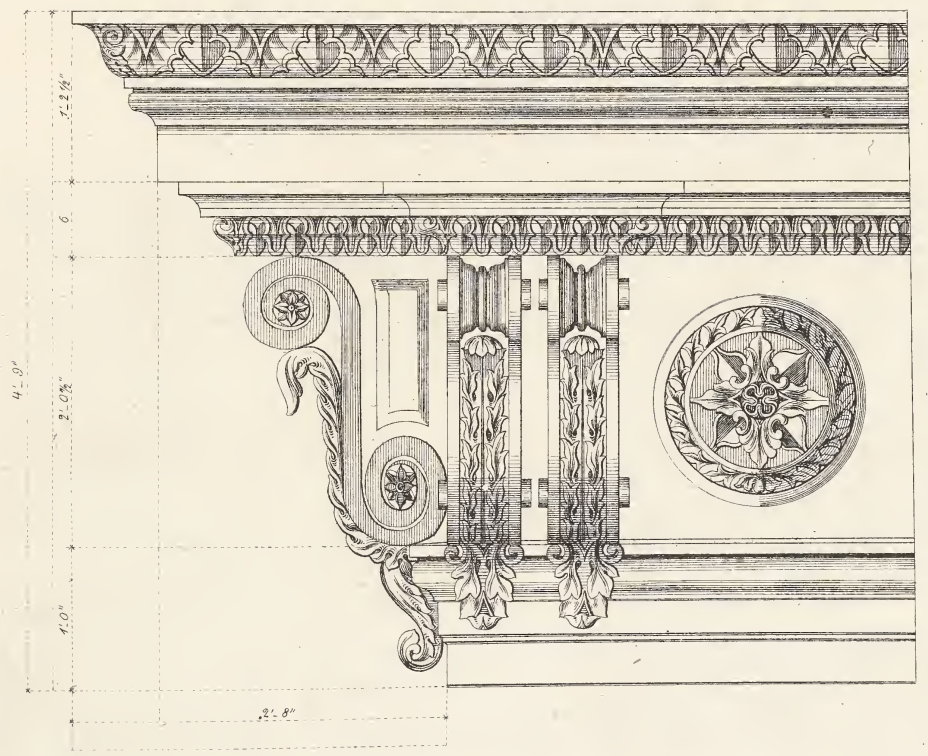
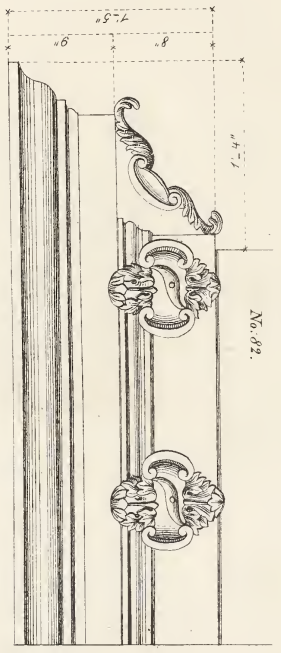


No. 86





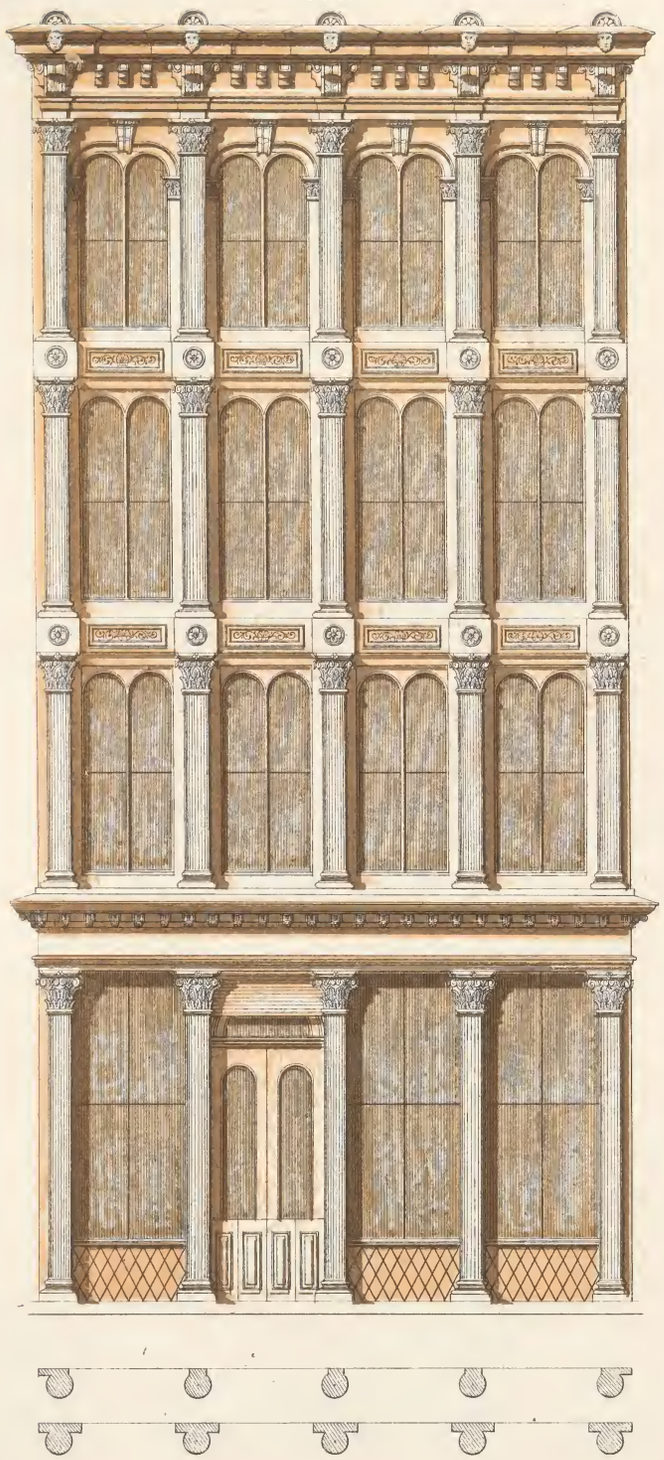
Lith of Sarony, Major & Knapp, 449 Broadway NY.

ARCHITECTURAL IRON WORKS NEW YORK

Plate XVII

Designs for Store Fronts.

No: 4.



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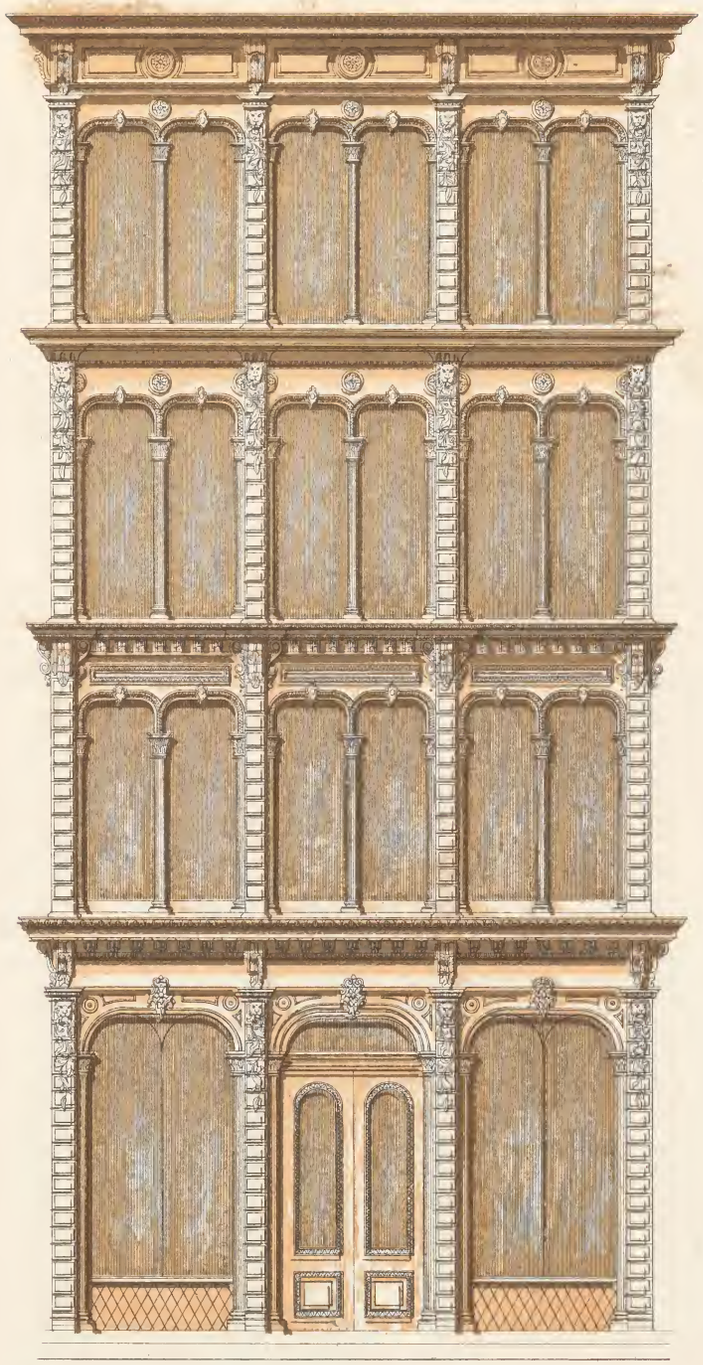

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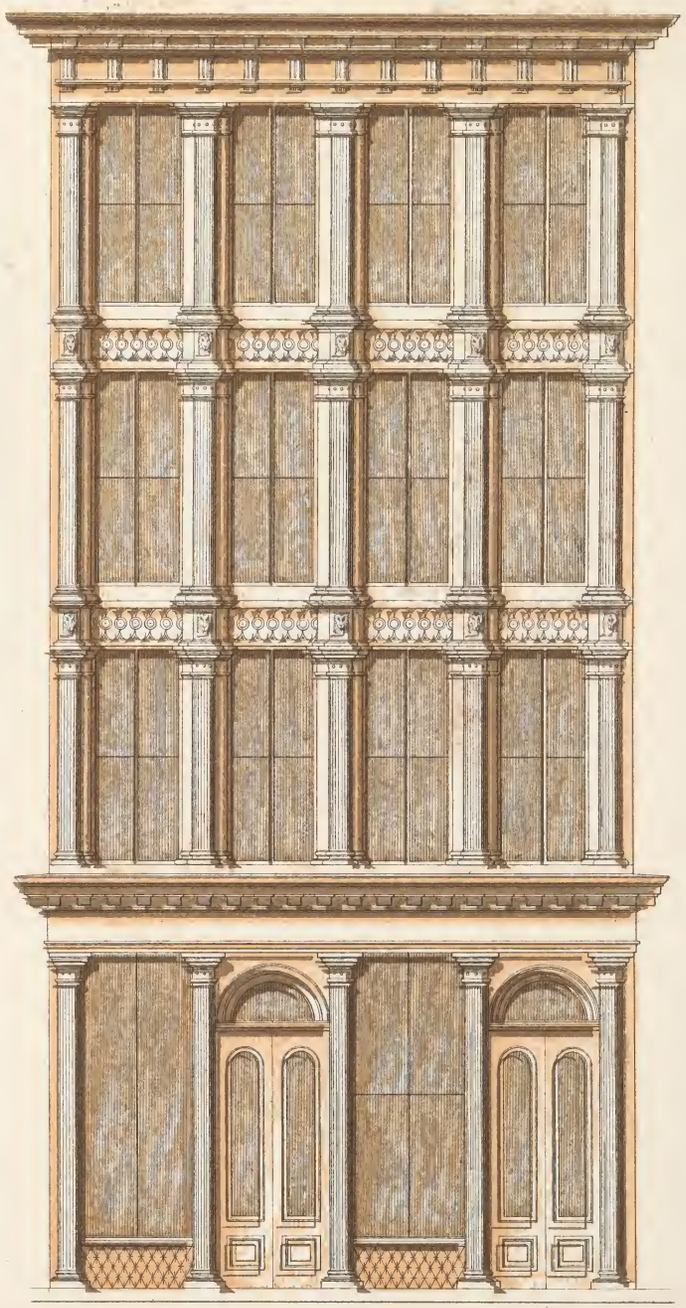


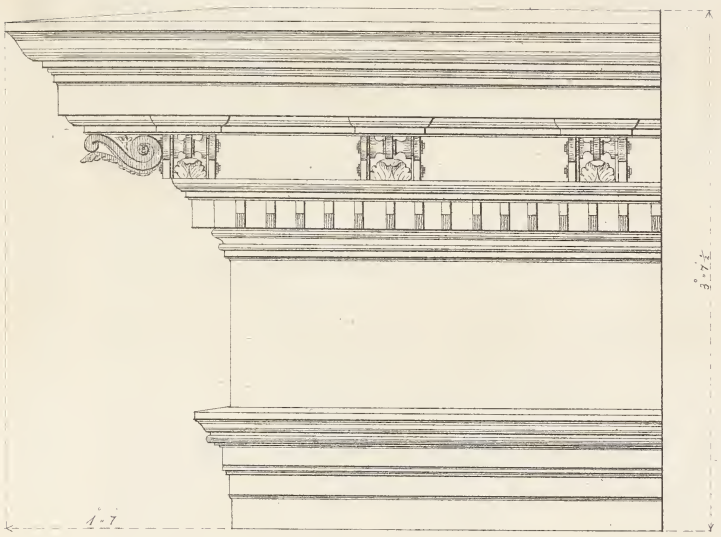
ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

Plate XVIII.

Cornices.

N.°100.



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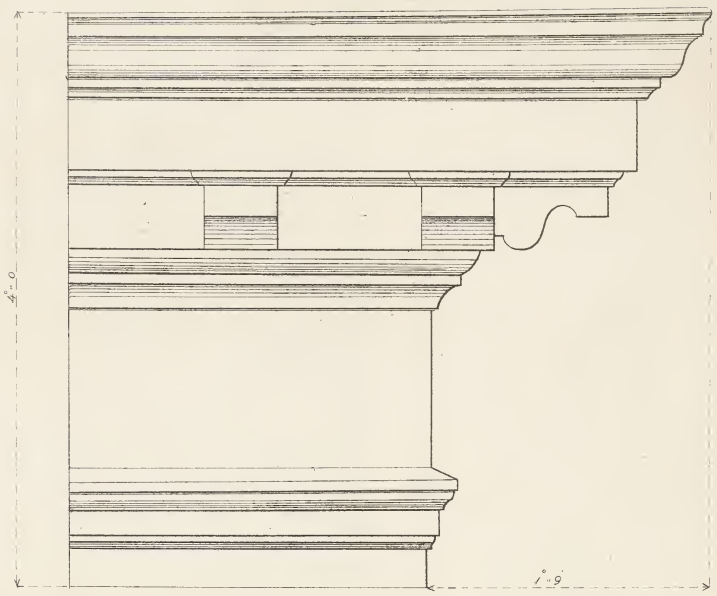

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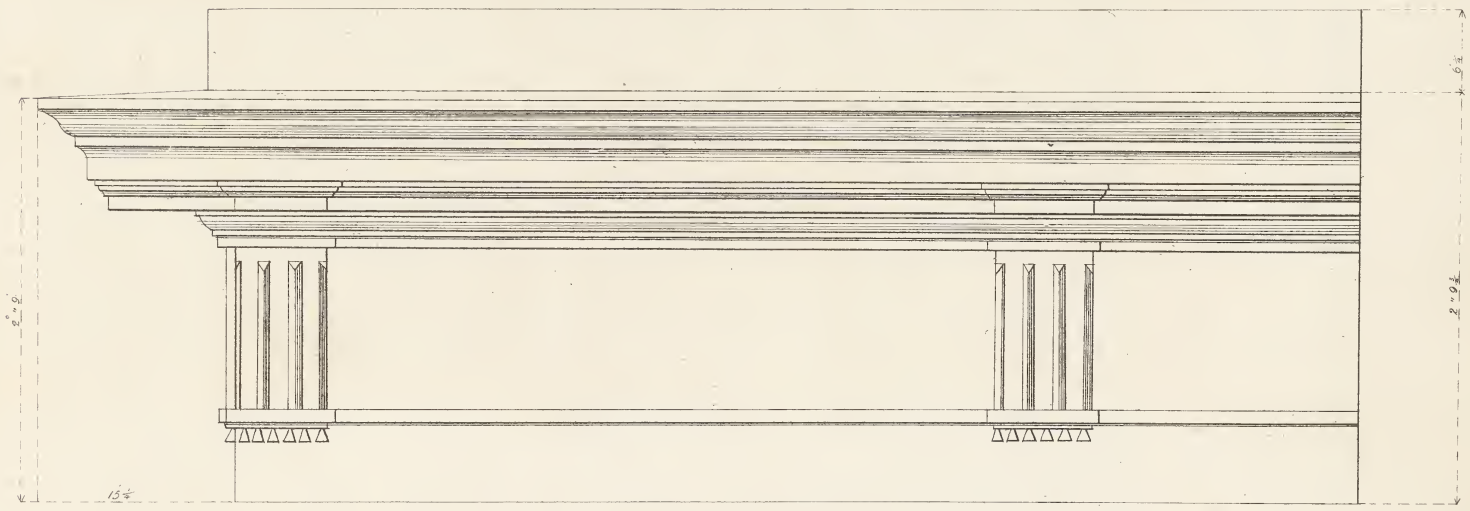

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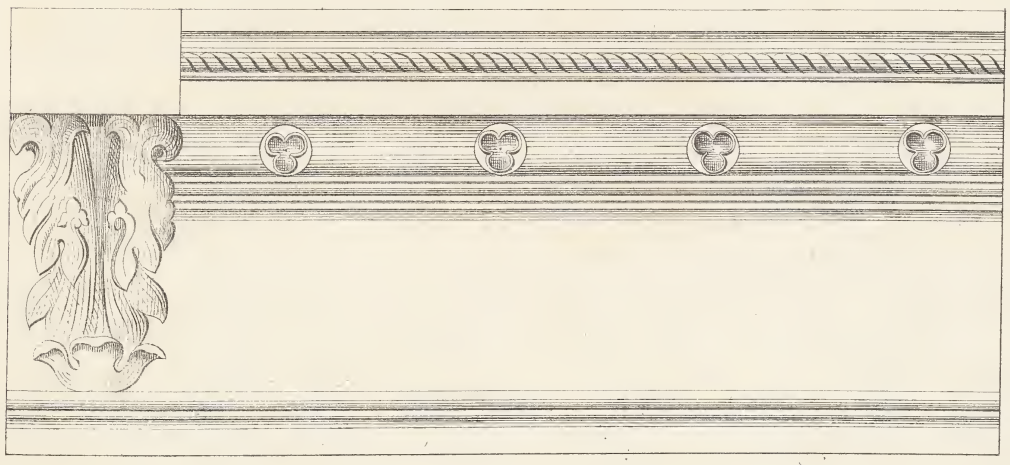
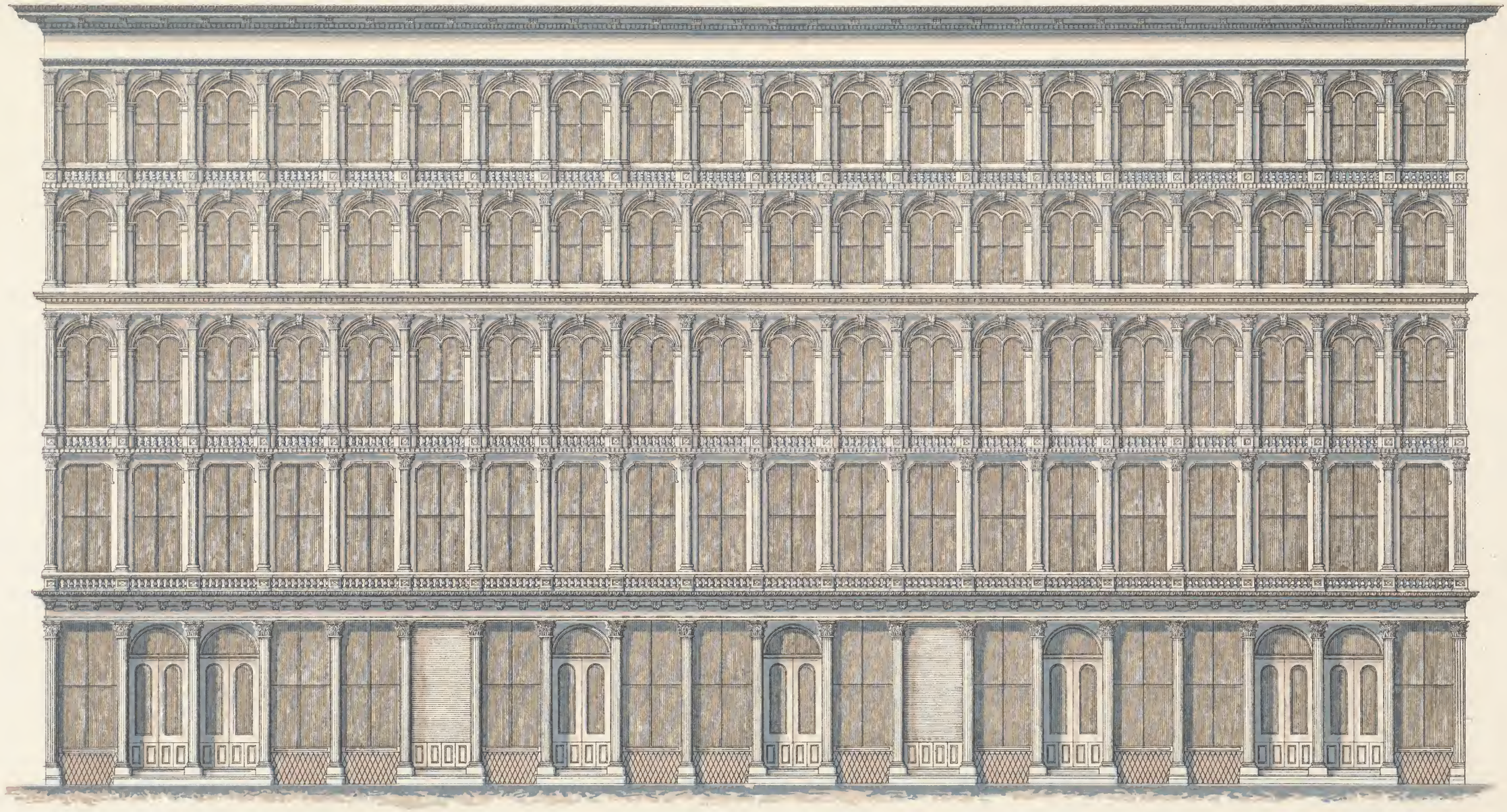


ARCHITECTURAL IRON WORKS.-NEW YORK.

Lith of Sarony, Major & Knapp, 449 Broadway N Y

Plate XIV

Front Elevation, LLOYD & JONES Building, Chicago Ills. *No: 2.*

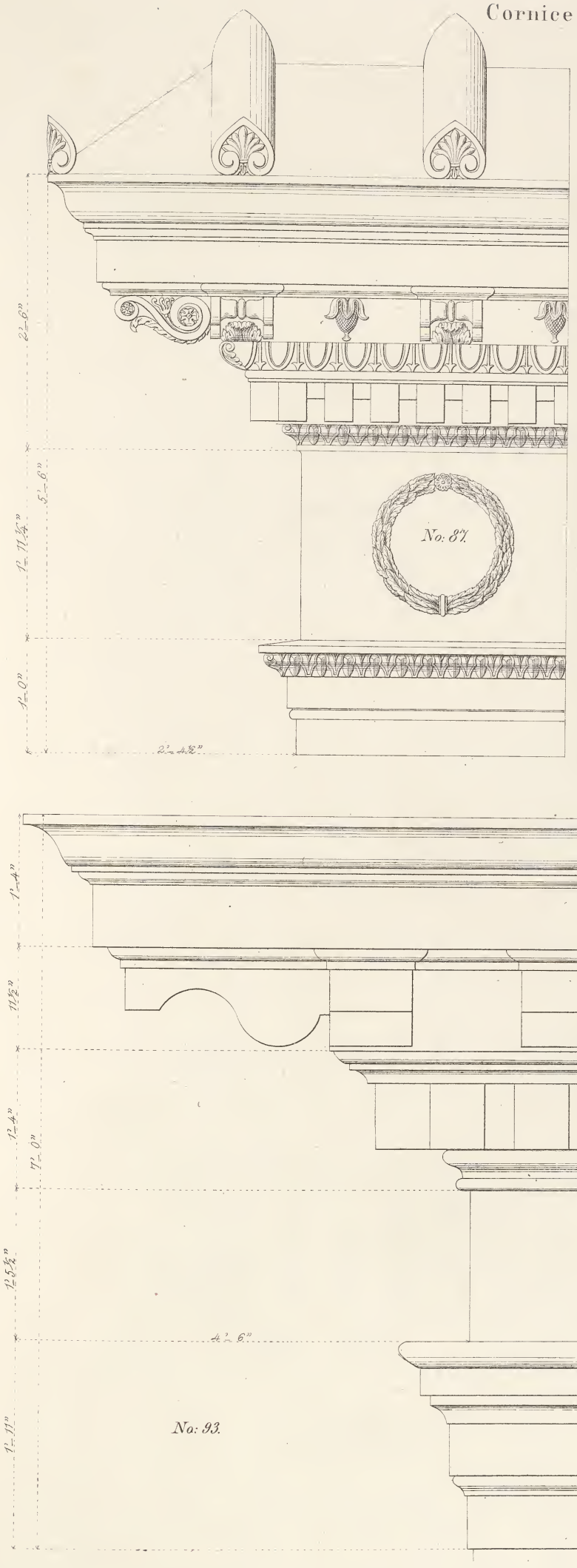


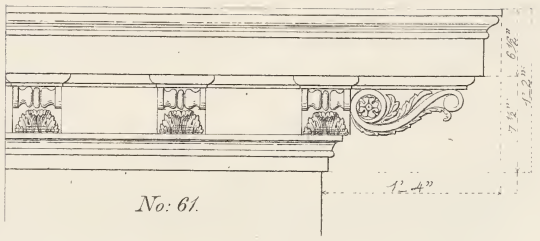
Lith. of Sarony, Major & Knapp 449 Broadway, N.Y.

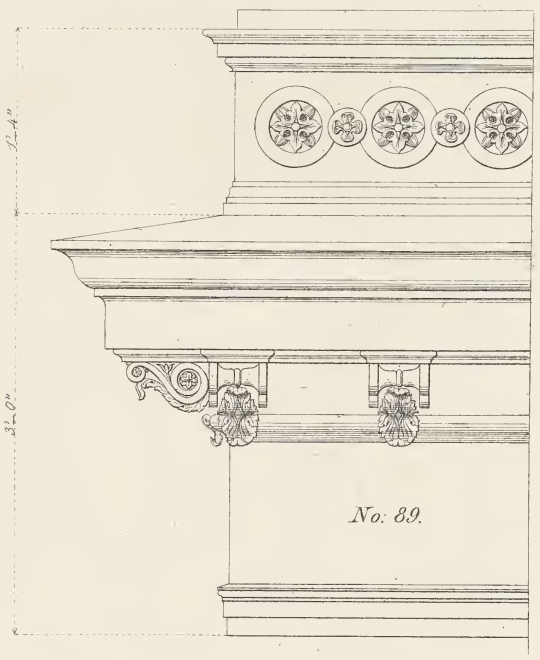
ARCHITECTURAL IRON WORKS,_NEW-YORK.

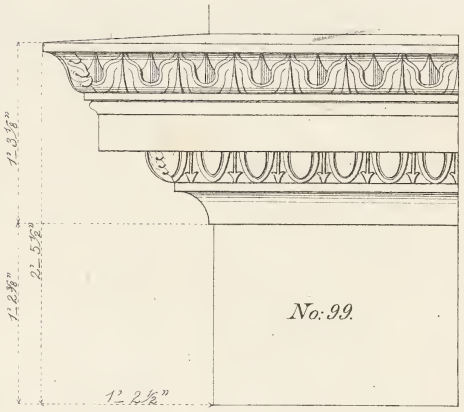
Plate XX.

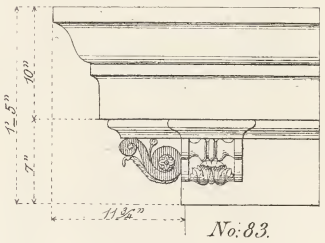
Cornices.

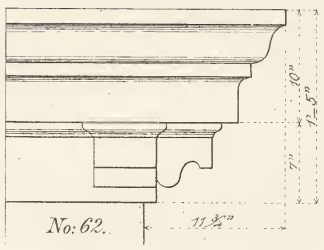












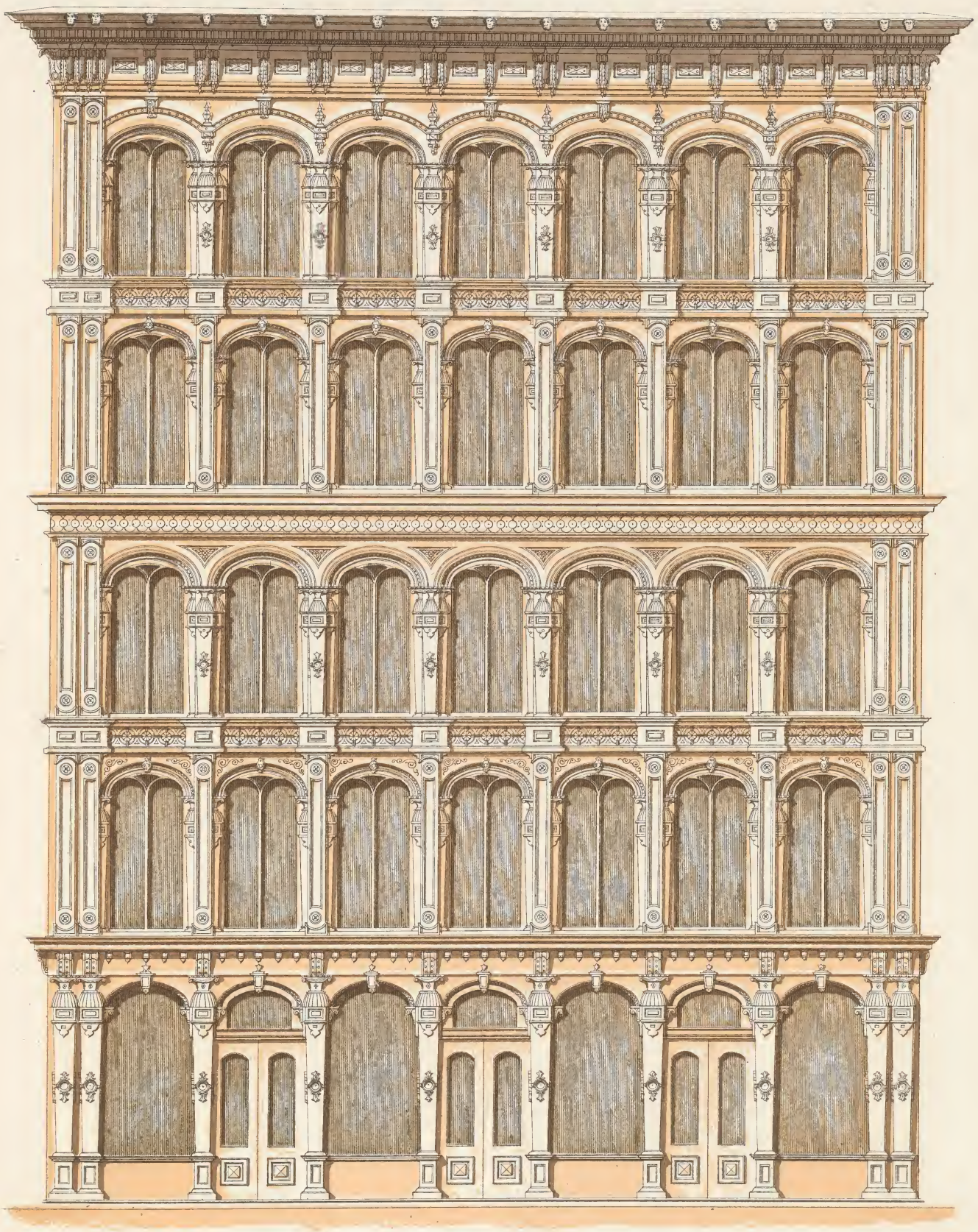
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Plate XXI.

Design for Store Front.

No: 37.



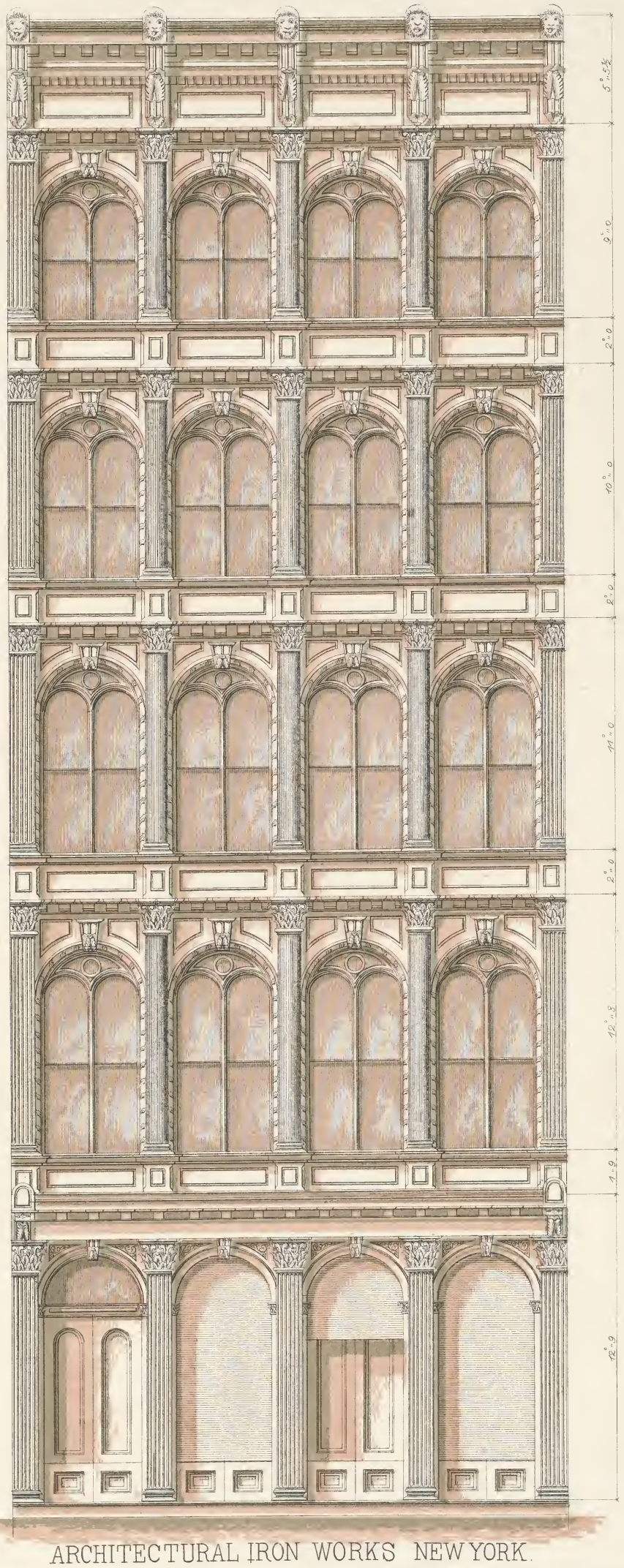
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Plate XXII.

No 58

Store Front 130 Broadway.

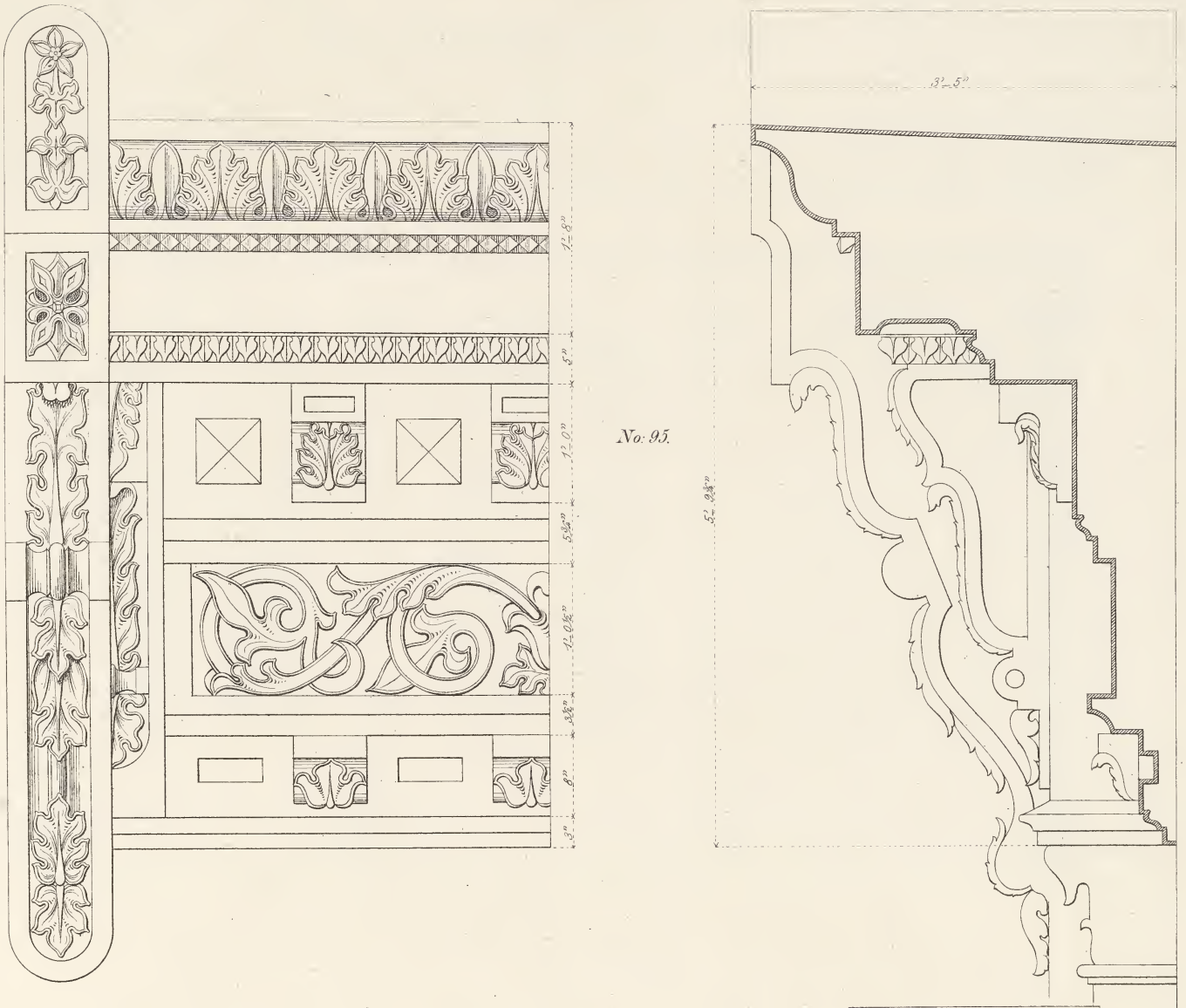


ARCHITECTURAL IRON WORKS NEW YORK.

Lith. & Print. Major & Knapp, 449 Broadway N.Y.

Plate XXIII.

Cornices.



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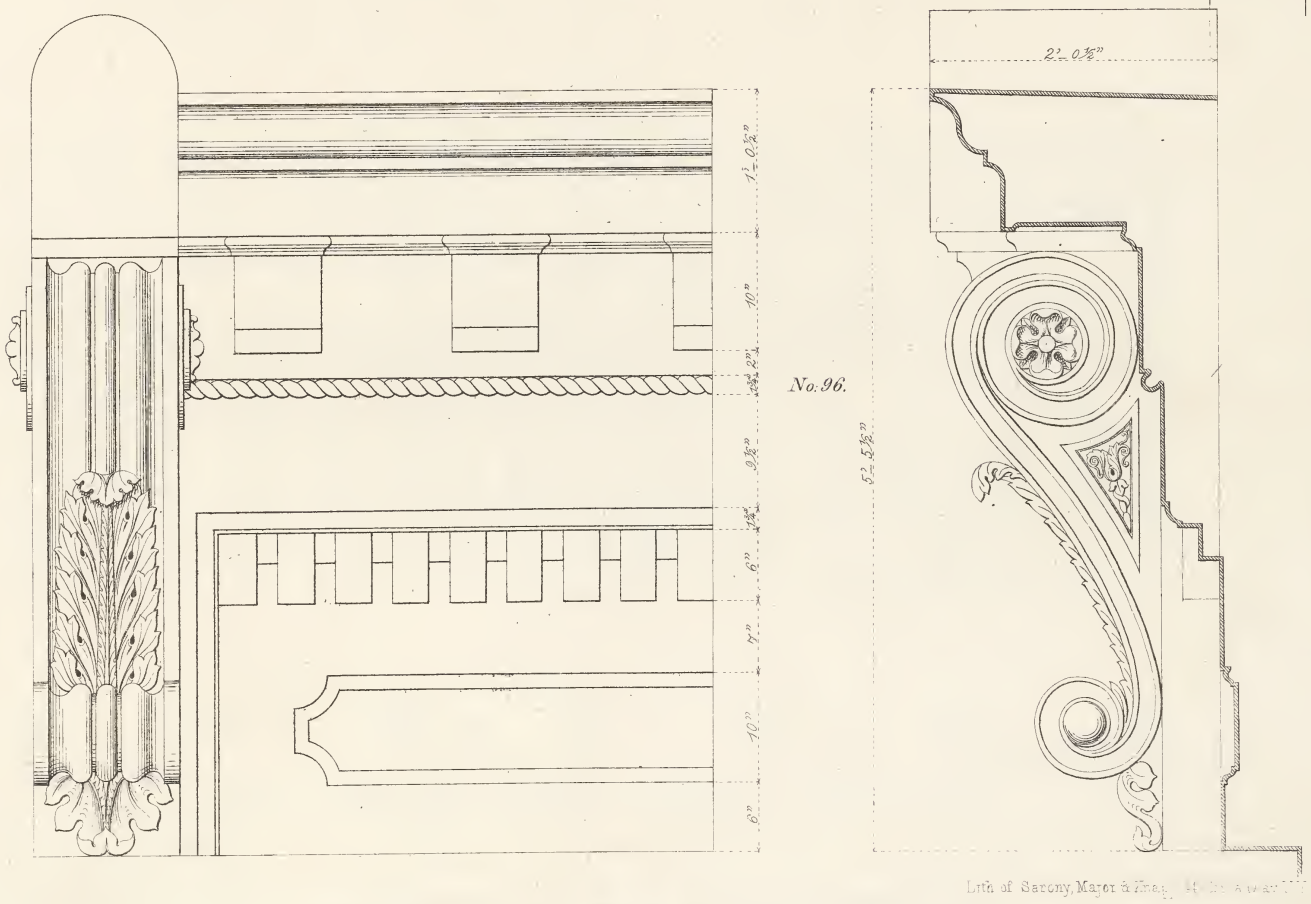


No. 96.

Lith of Sarony, Major & Knapp, 449 Broadway N.Y.

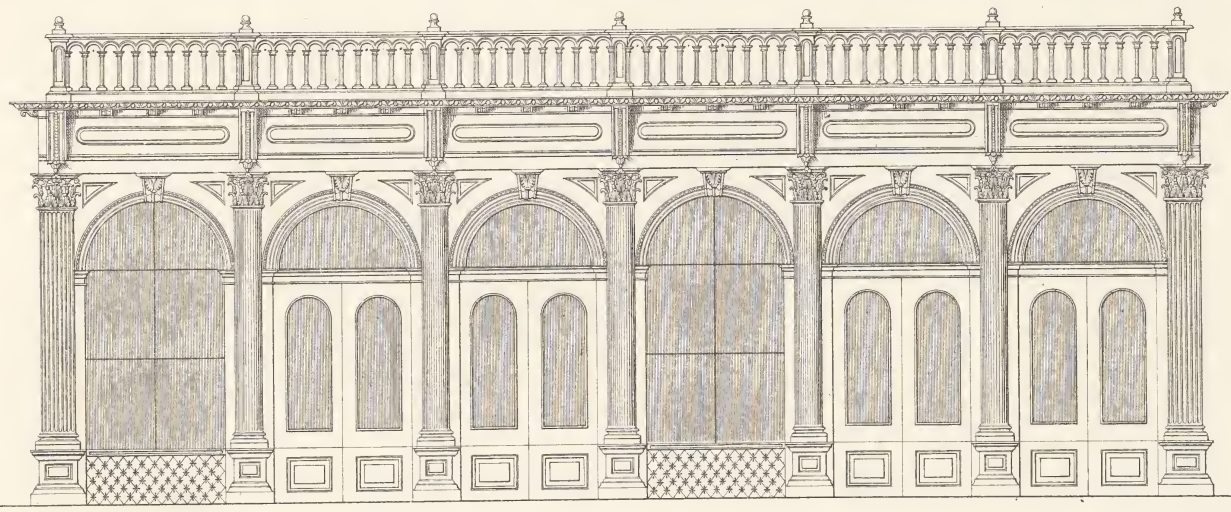
ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Plate XXIV.

Front Elevation of first Story

No: 63.

No: 64.



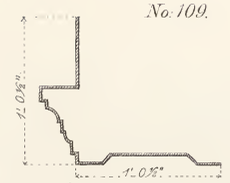
Lith of Sarony, Major & Knapp, 449 Broadway, N.Y.

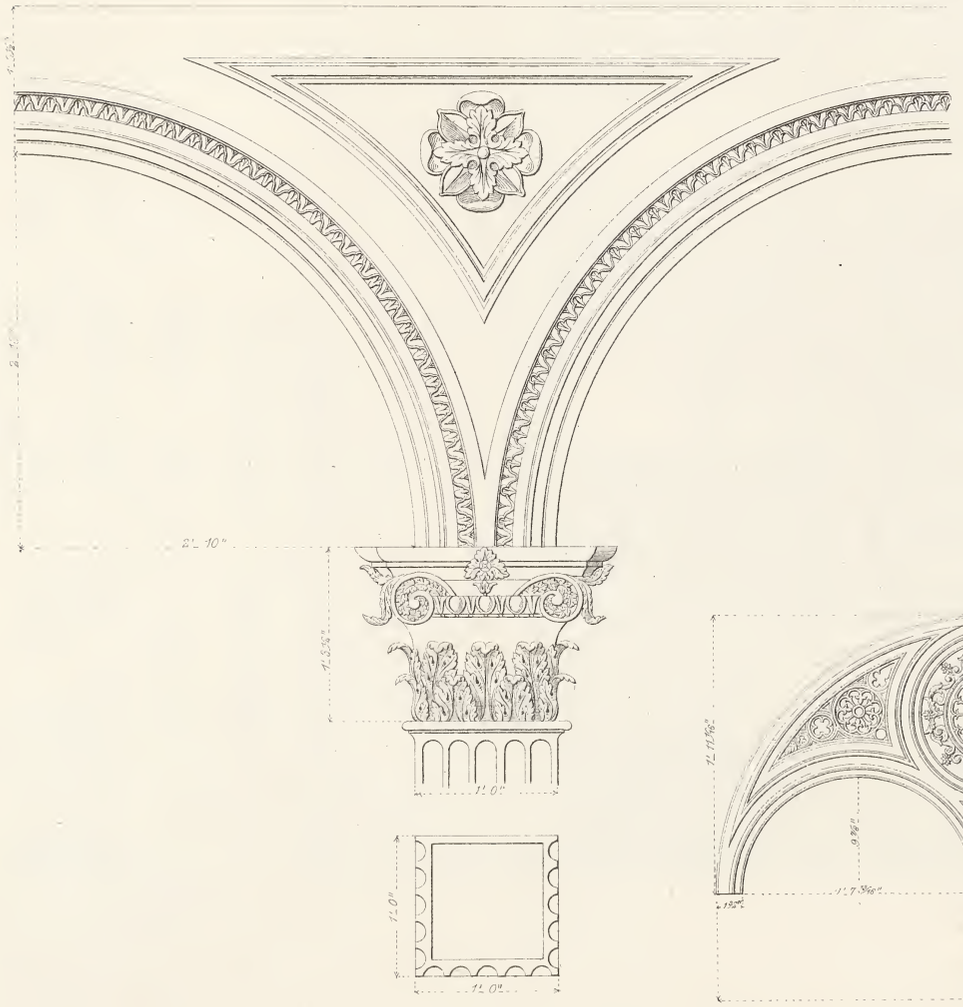
ARCHITECTURAL IRON WORKS,— NEW-YORK

Plate XXV

Arches and Tracery. Capitals with Section of Piers.

No. 109.





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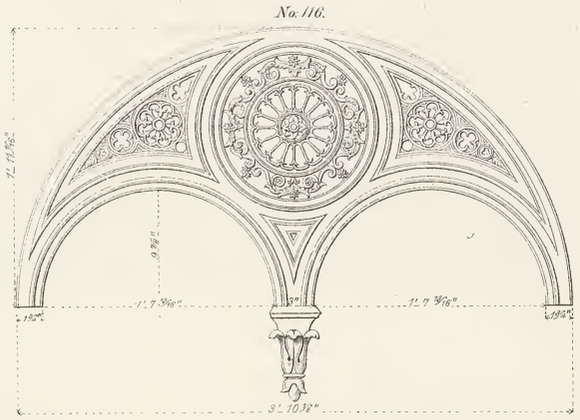

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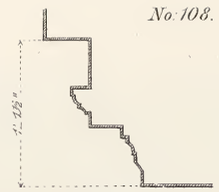
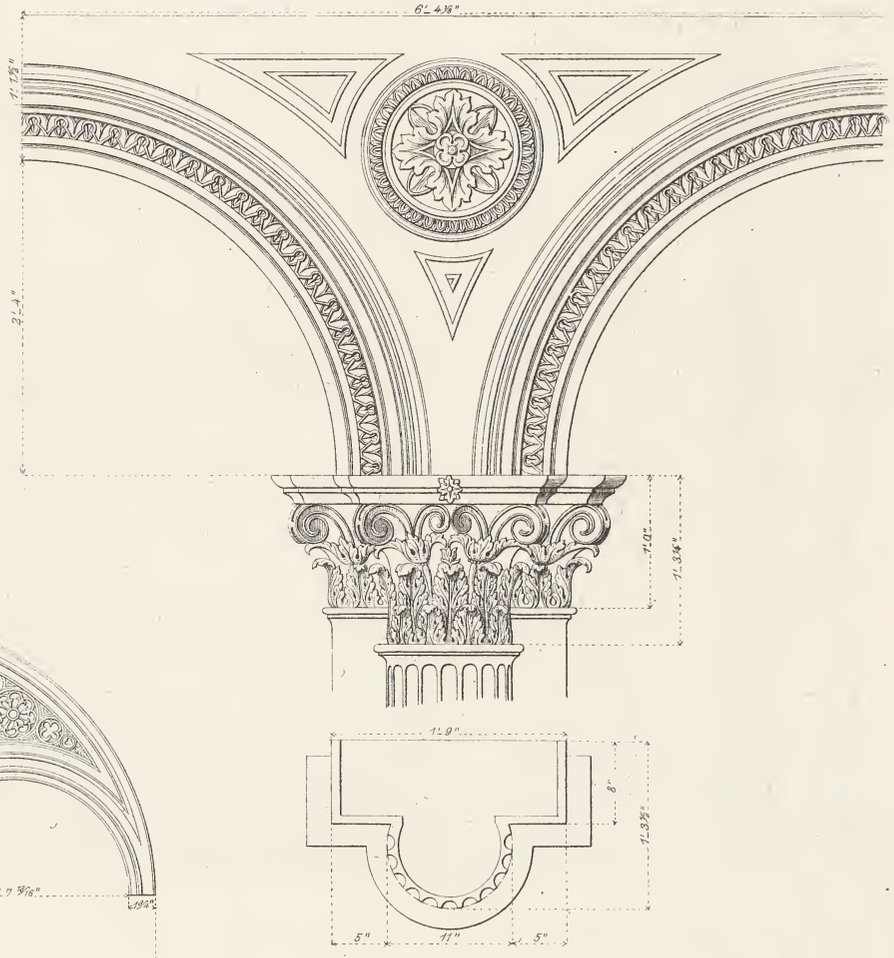




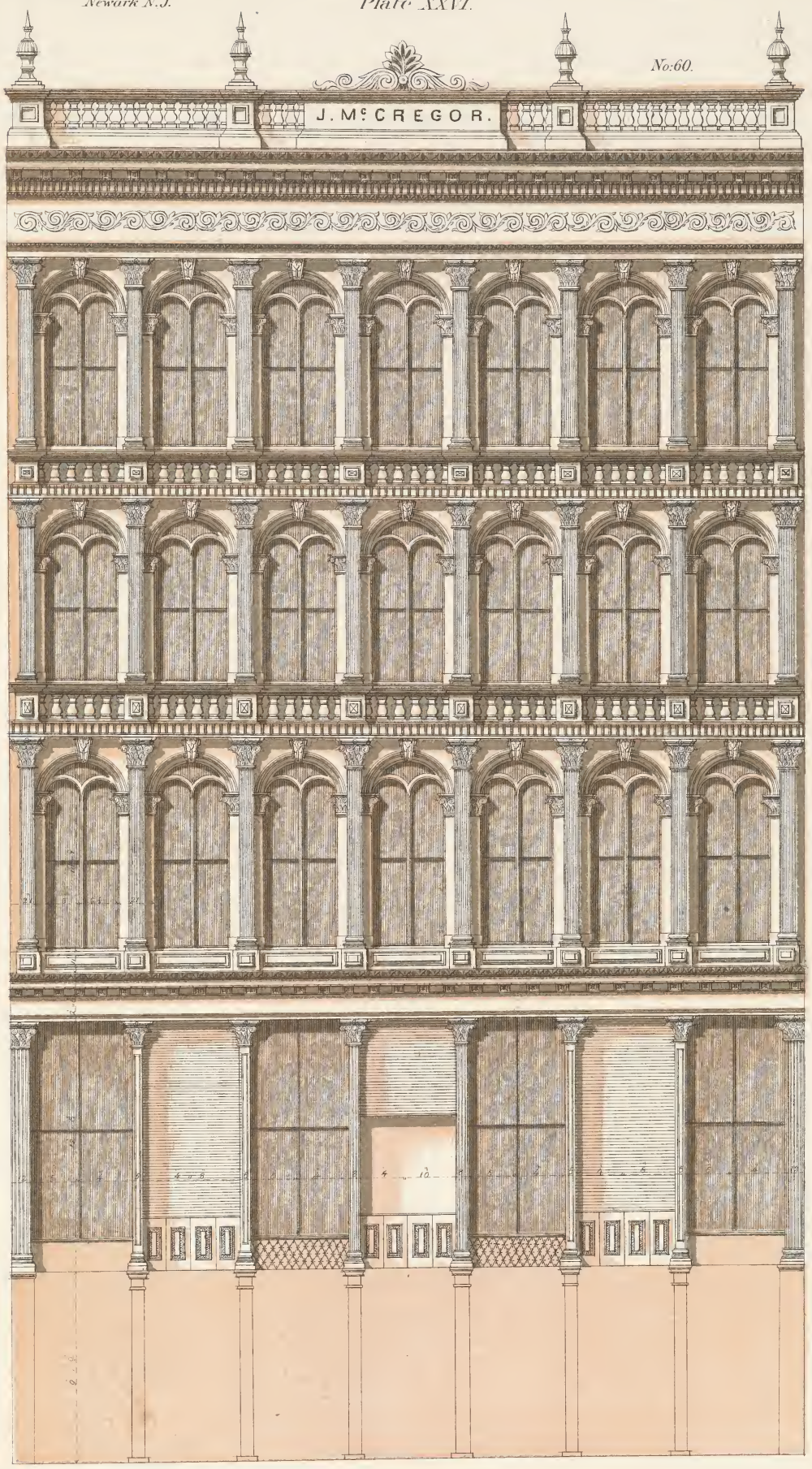
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,_NEW-YORK.

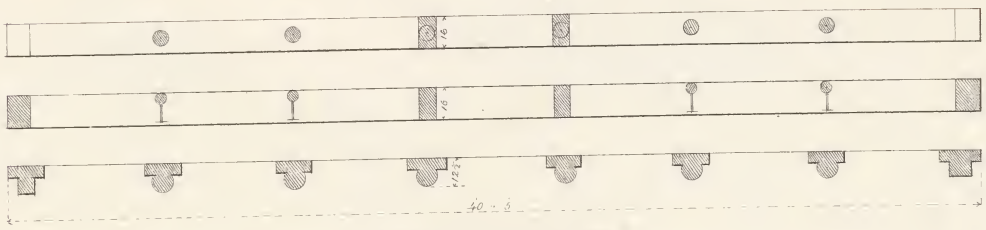
Iron Front for
M.r John M.c Cregor.
Newark N.J.

Plate XXVI.

No:60.



ARCHITECTURAL IRON WORKS,—NEW-YORK.

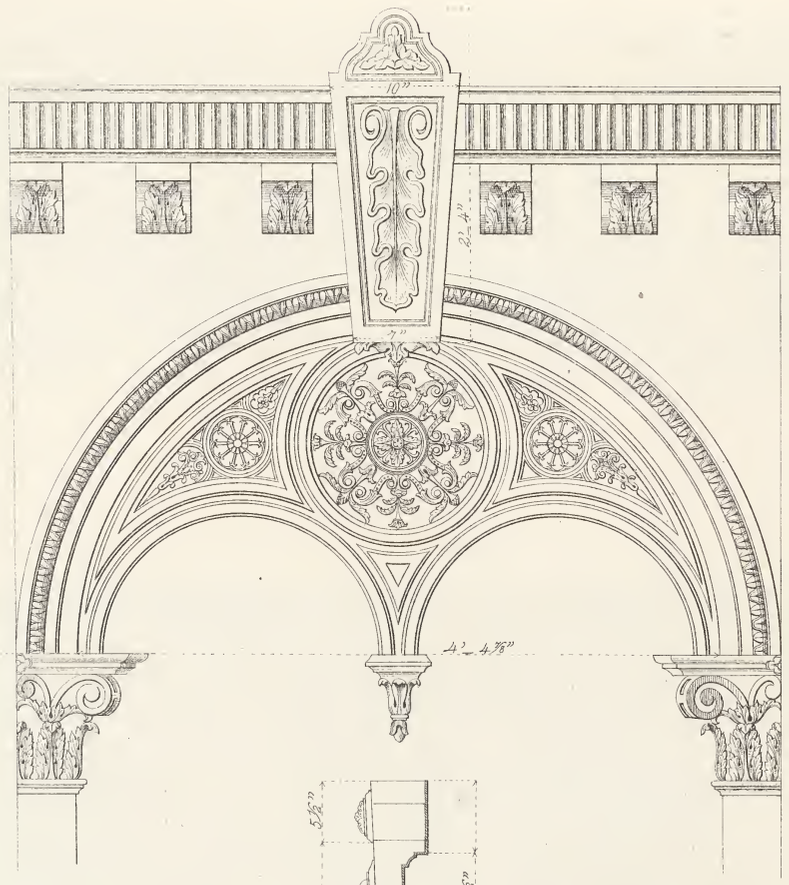


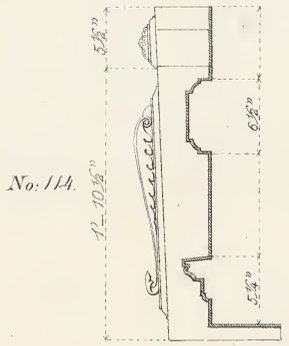
Scale one inch to Eight feet.

Lith. of Sarony, Major & Knapp 449 Broadway N.Y.

Plate XXVII

Arches, Keys, and Arch Ornaments.





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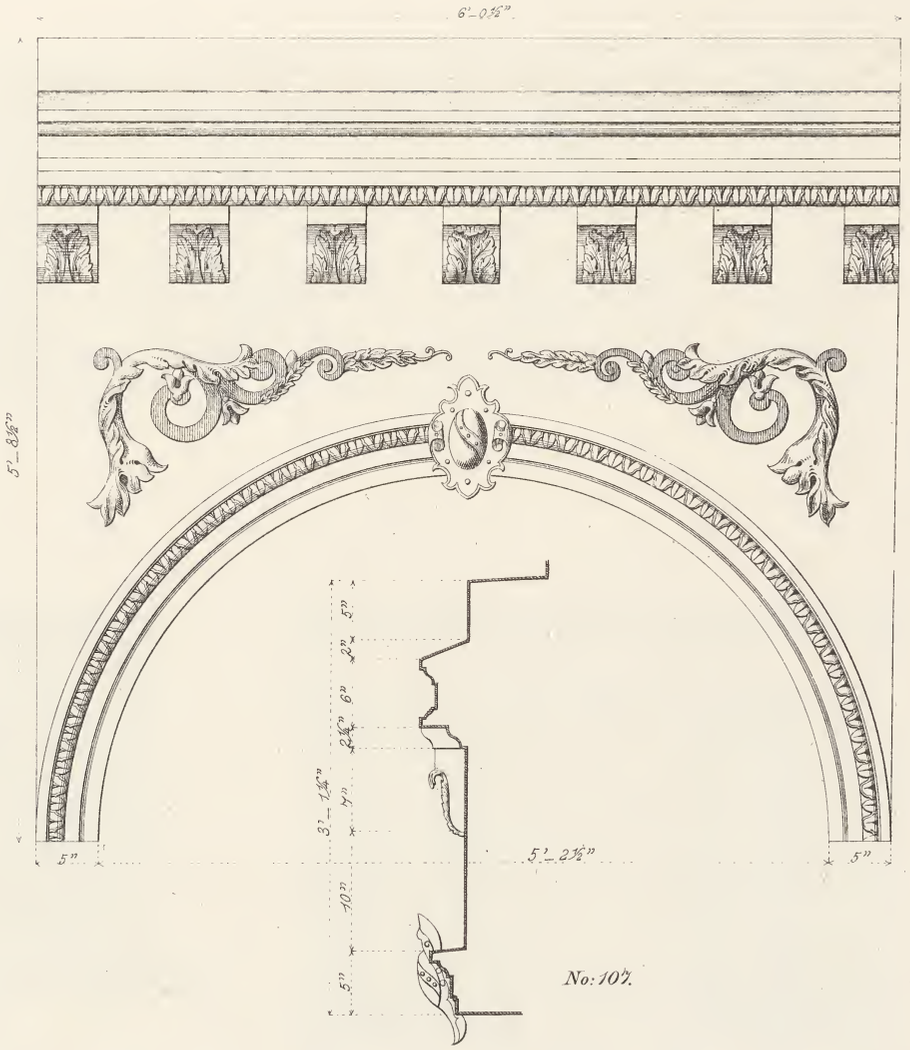


No: 107.

ARCHITECTURAL IRON WORKS,_NEW-YORK.

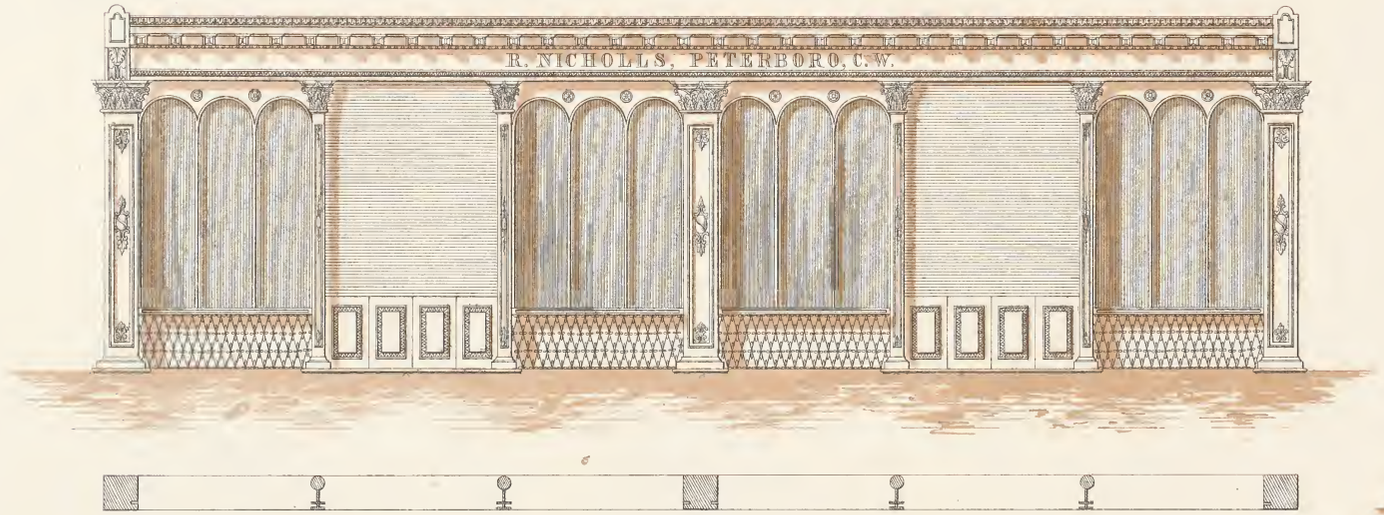
Ind. of Sarony, Major & Knapp. 449 Broadway, N.Y.

Plate XXVIII.

Designs for Store Fronts.

No: 62.

No: 65.



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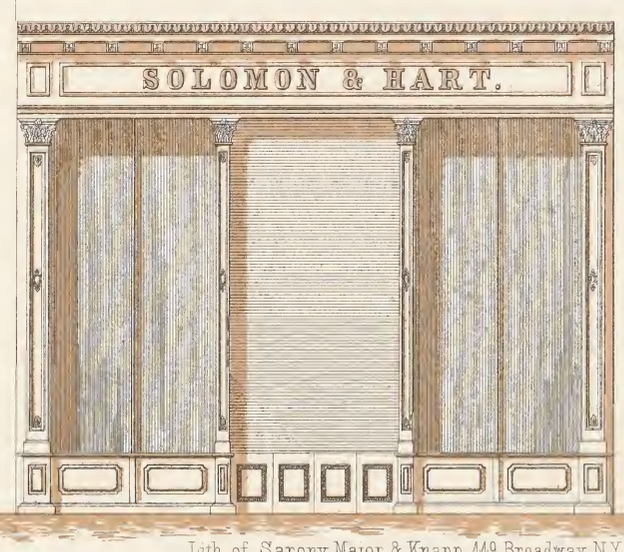


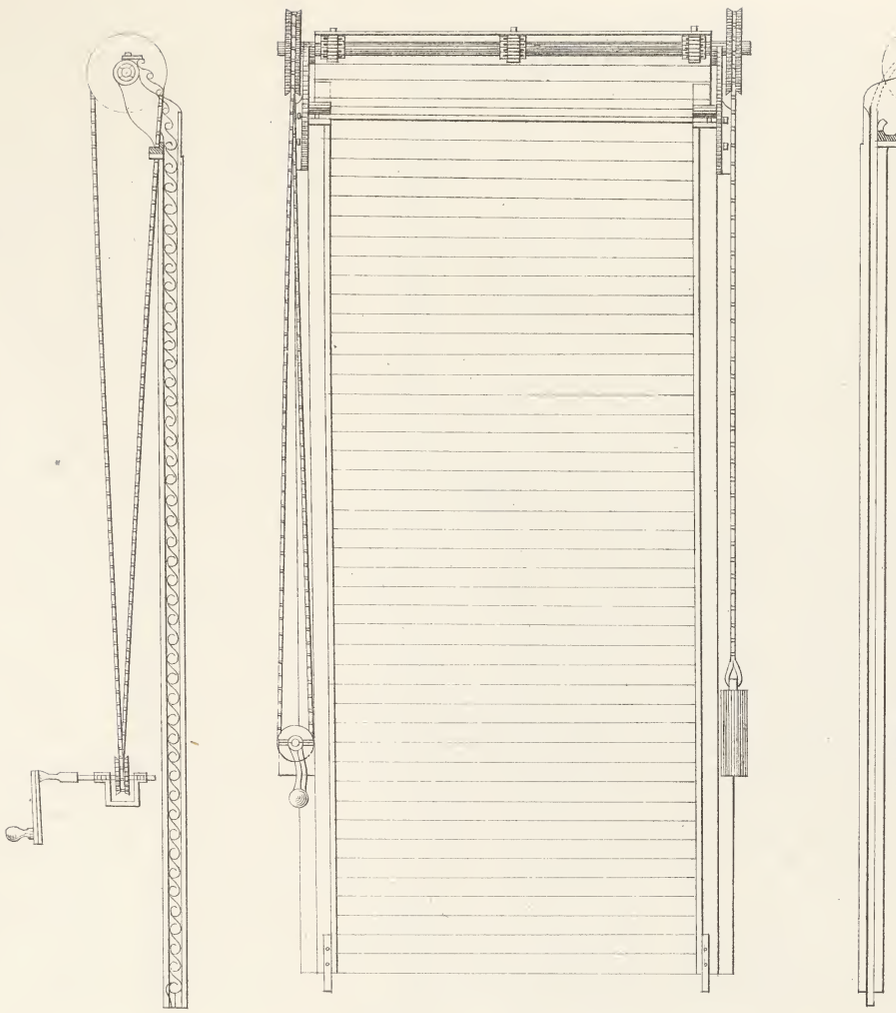
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS, _ NEW-YORK.

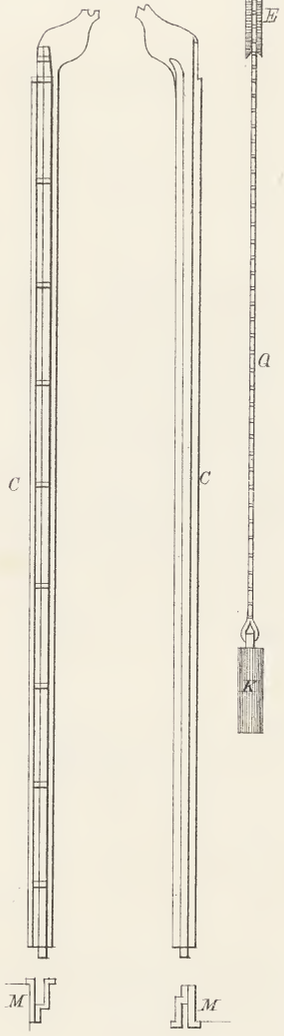
Plate XXIX.

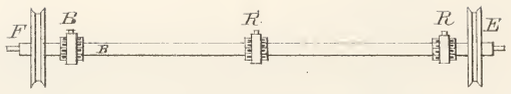
Rolling Iron Shutter & Fixtures.

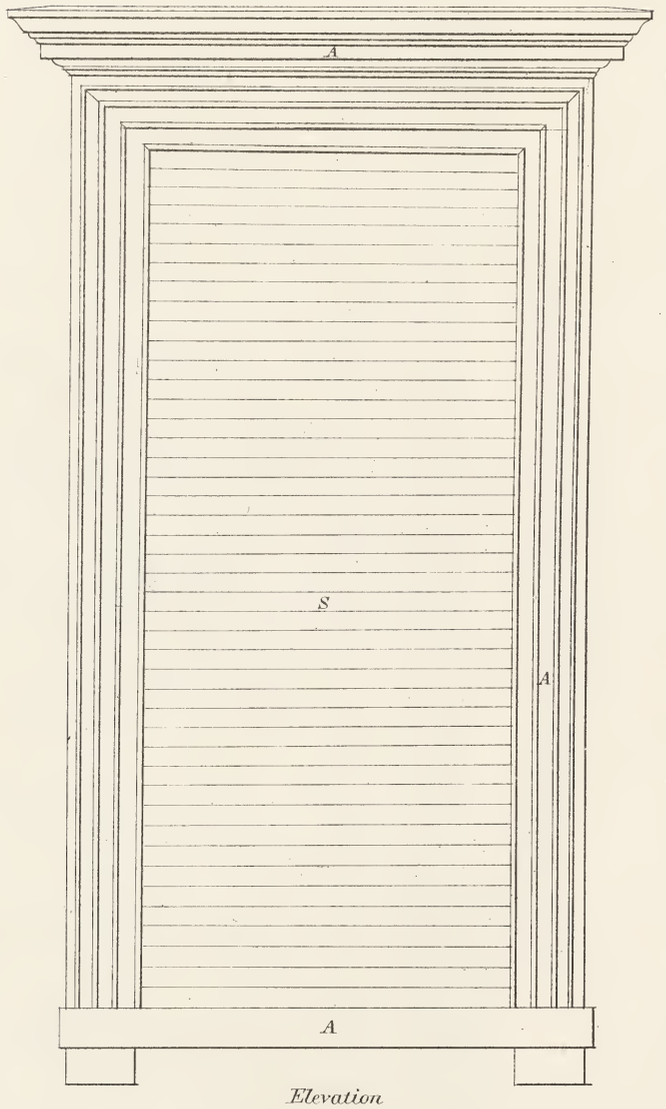
№ 143



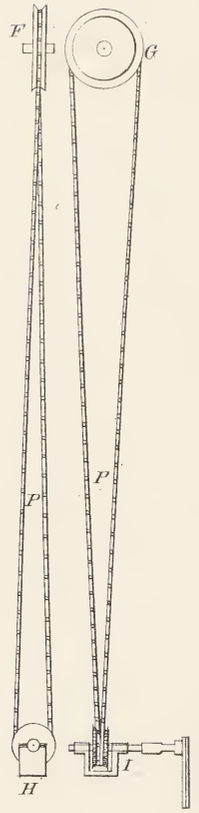
Inside View

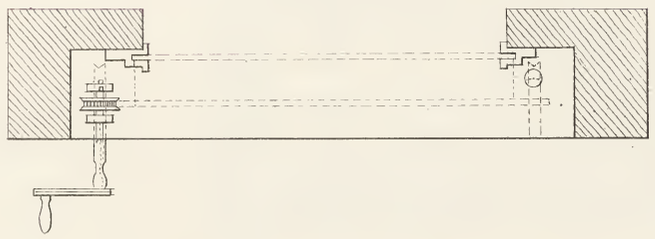


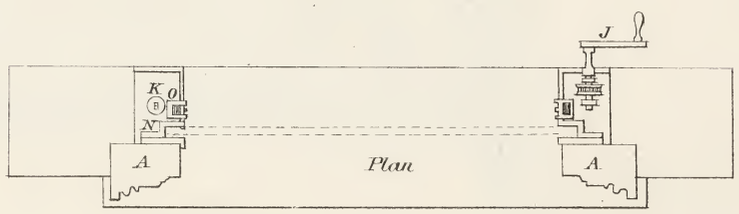




Elevation







Plan

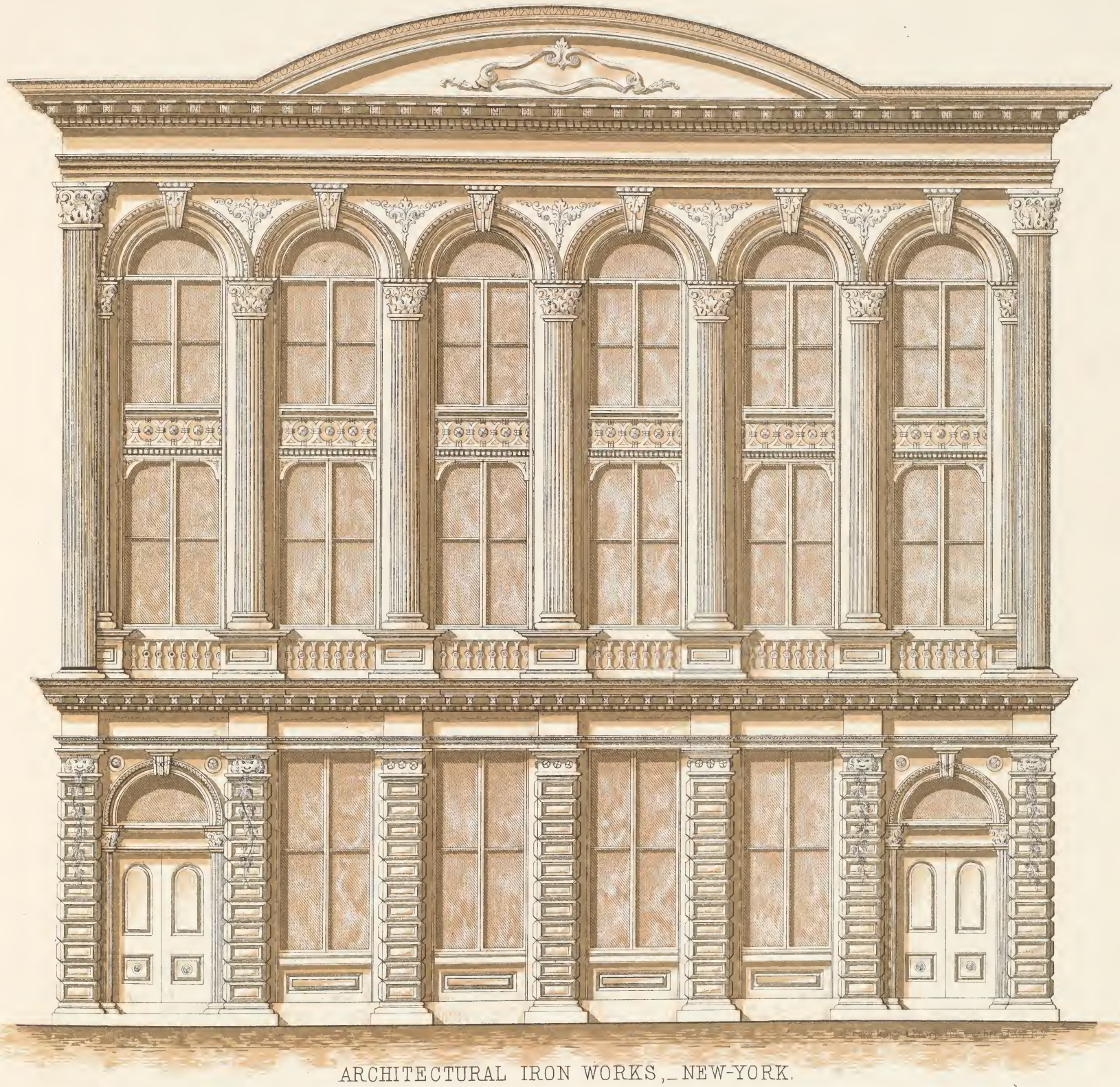
ARCHITECTURAL IRON WORKS, NEW YORK

Lith. of Sarony Major & Knapp 449 Broadway N.Y.

Plate XXX.

No 21.

ODD FELLOWS HALL.

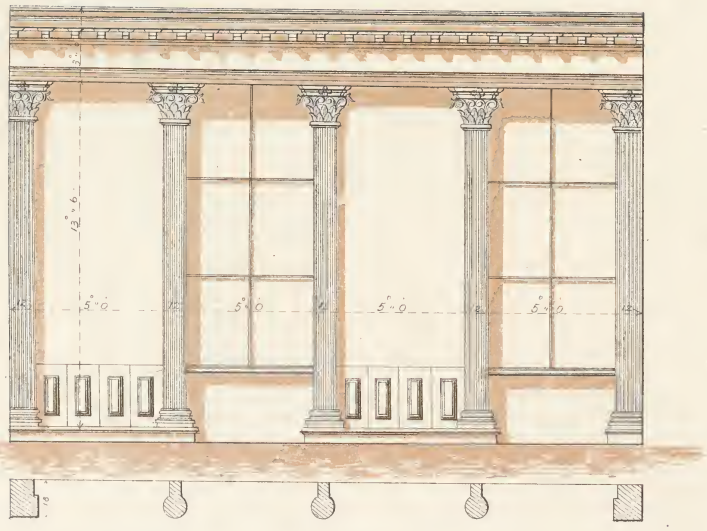


ARCHITECTURAL IRON WORKS,_NEW-YORK.

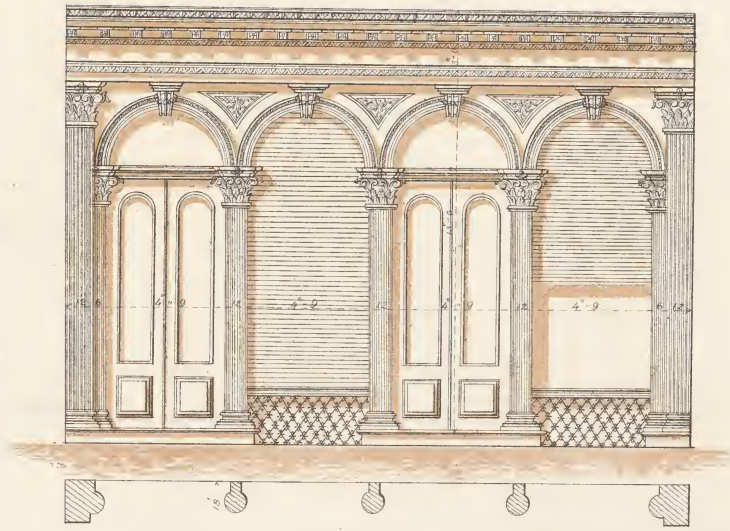
Plate XXXI.

Elevations of 1st Story Fronts.

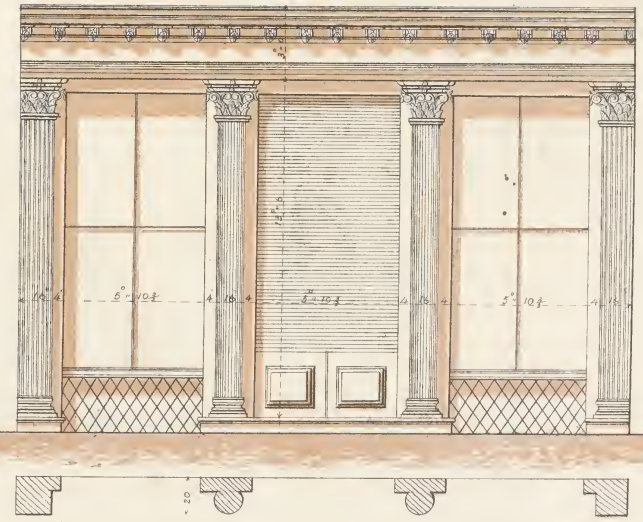
N.° 50.



N.° 51.



N.° 52



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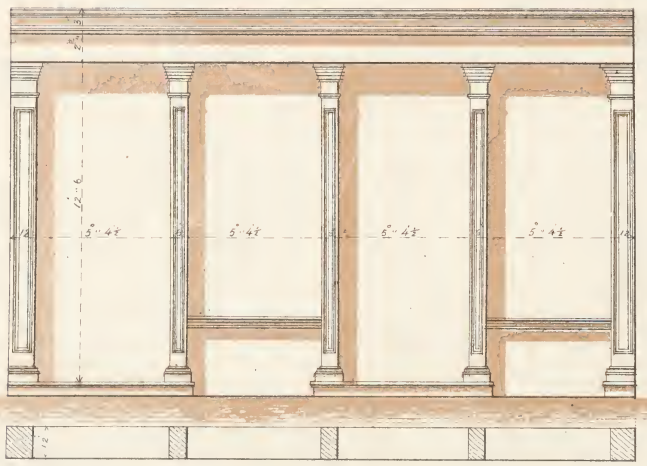

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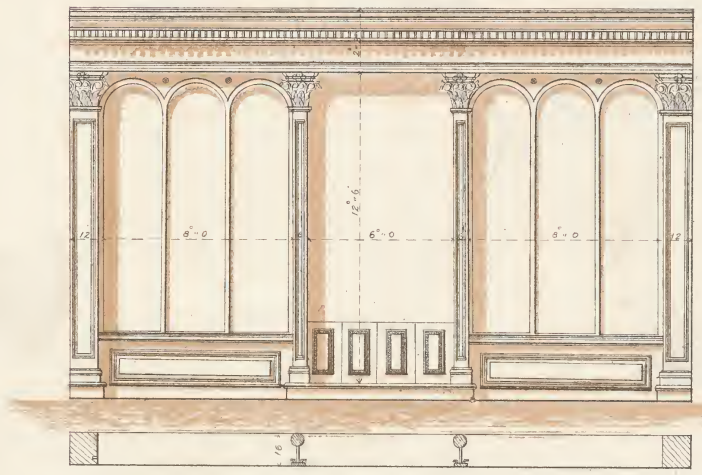

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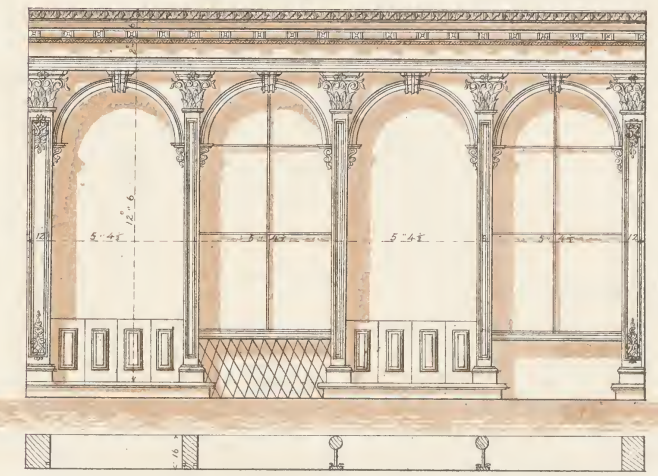
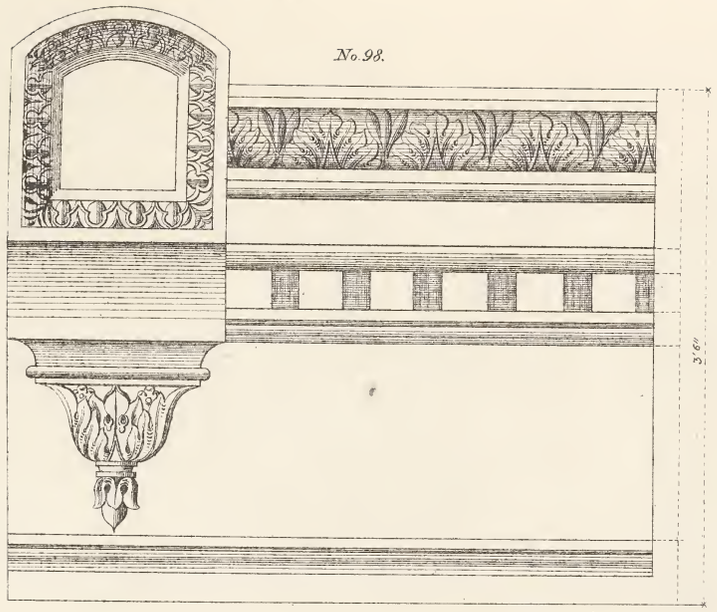


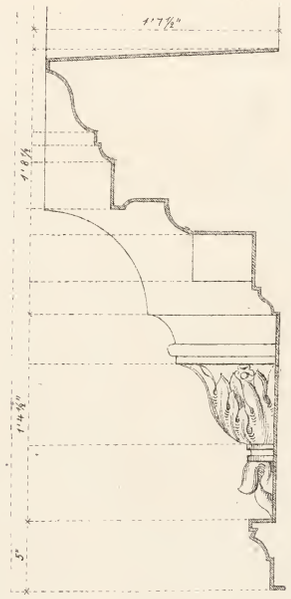
ARCHITECTURAL IRON WORKS, NEW-YORK.

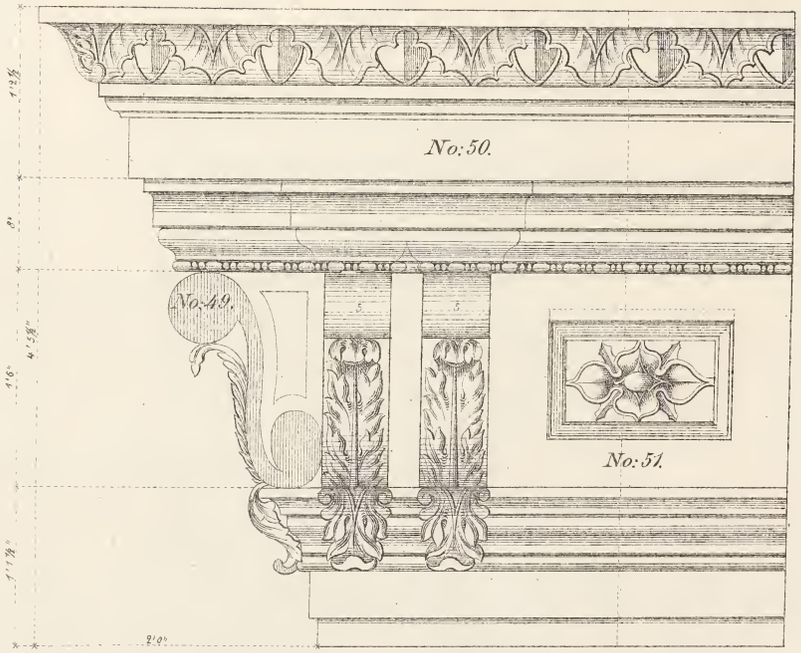
Lith. of Sarony, Major & Knapp, 449 Broadway N.Y.

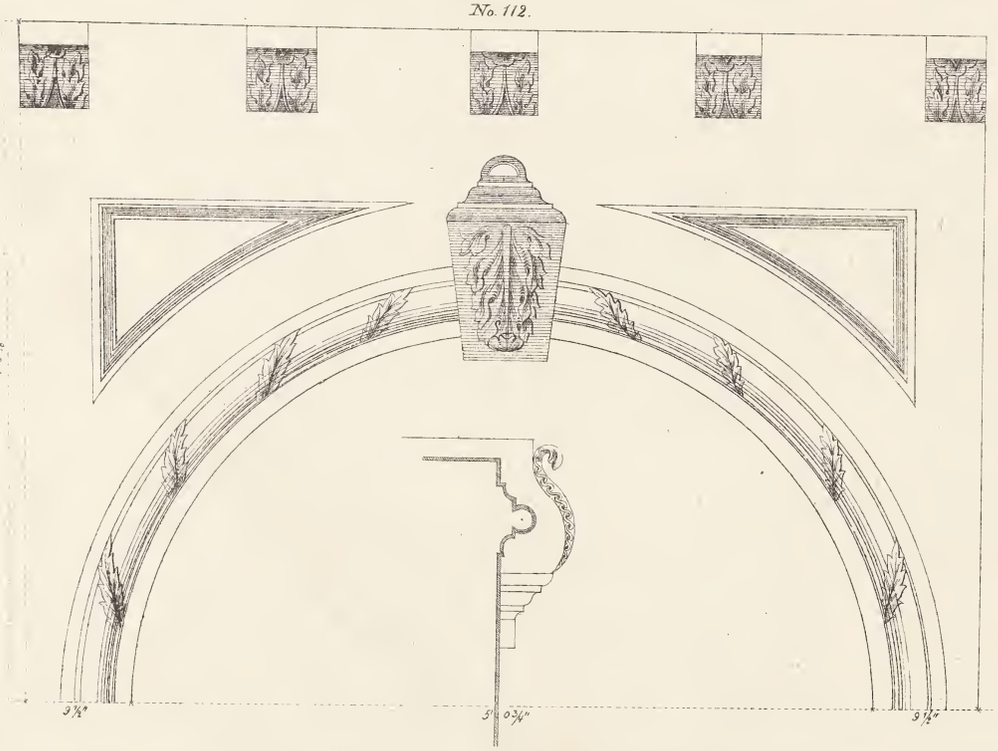
Plate XXXII.

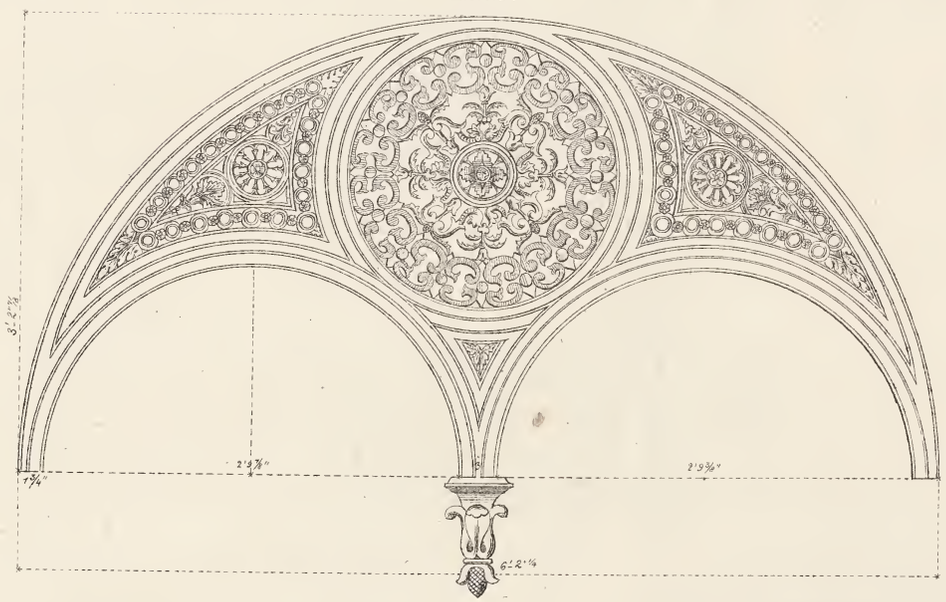
Cornices Arches & Arches Ornamental.











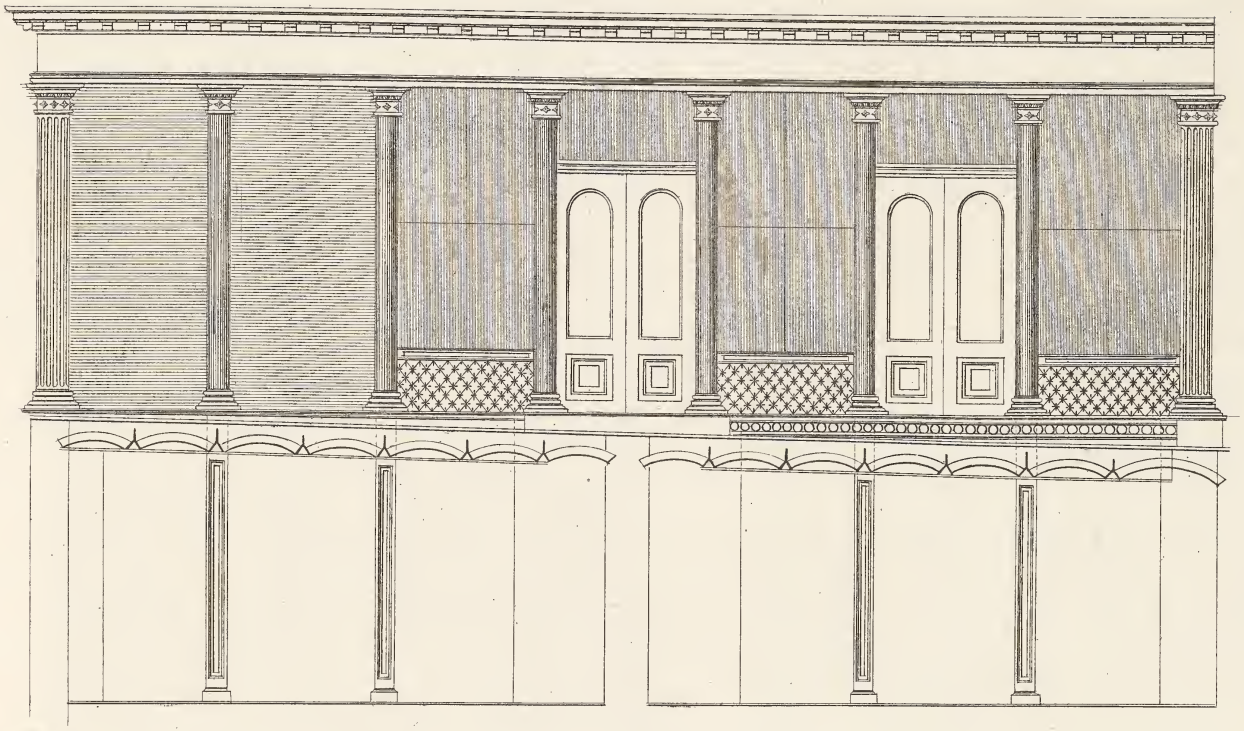
Lith of Sarony, Major & Knapp, 449 Broadway, N.Y.

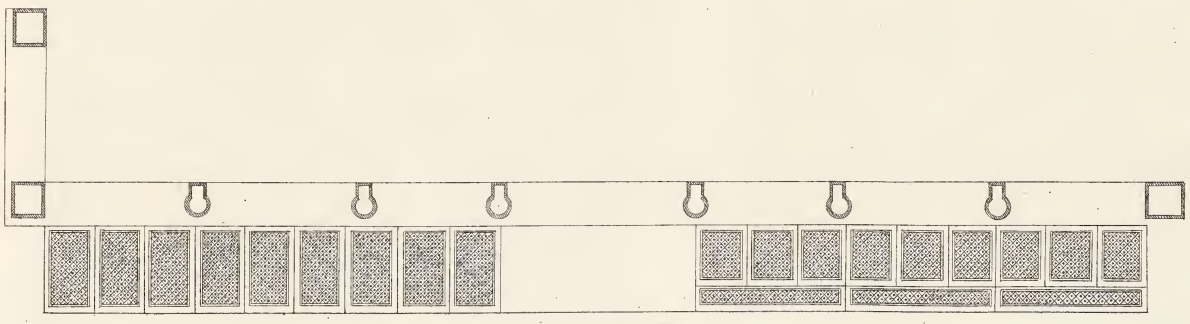
ARCHITECTURAL IRON WORKS NEW YORK.

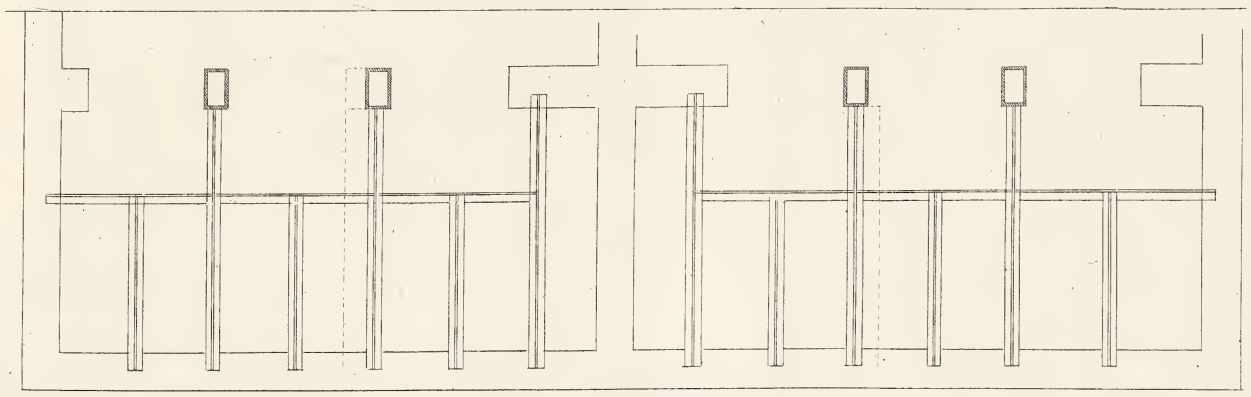
Plate XXXIII.

Iron Store Front for W.B. Greenlaw & Co.
Memphis, Tenn.

No. 69.





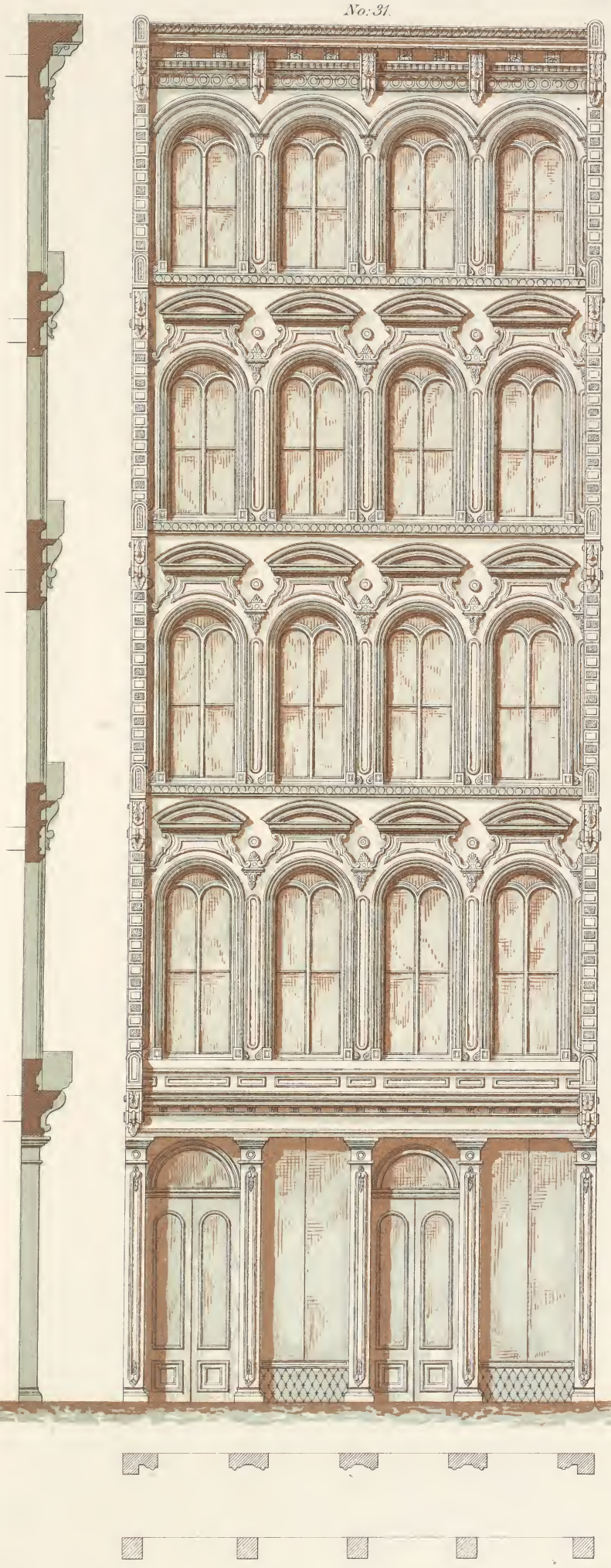


ARCHITECTURAL IRON WORKS.— NEW-YORK.

Lith. of Sarony Major & Knapp 449 Broadway N.Y.

Plate XXXIV.

No: 31.



No: 32.

Lith of Carony, Major & Knapp, 448 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,— NEW-YORK.

Plate XXXV.

No:33.

No:34.

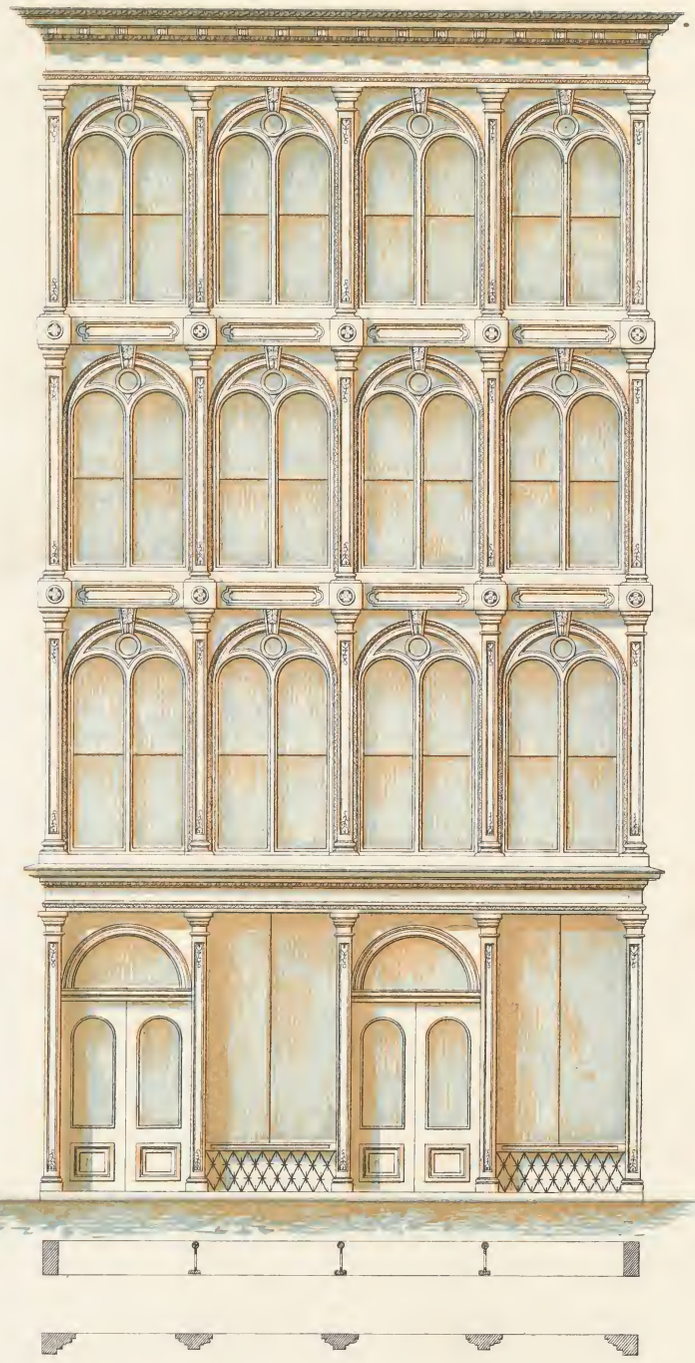
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,_NEW-YORK.

Plate XXXVI.

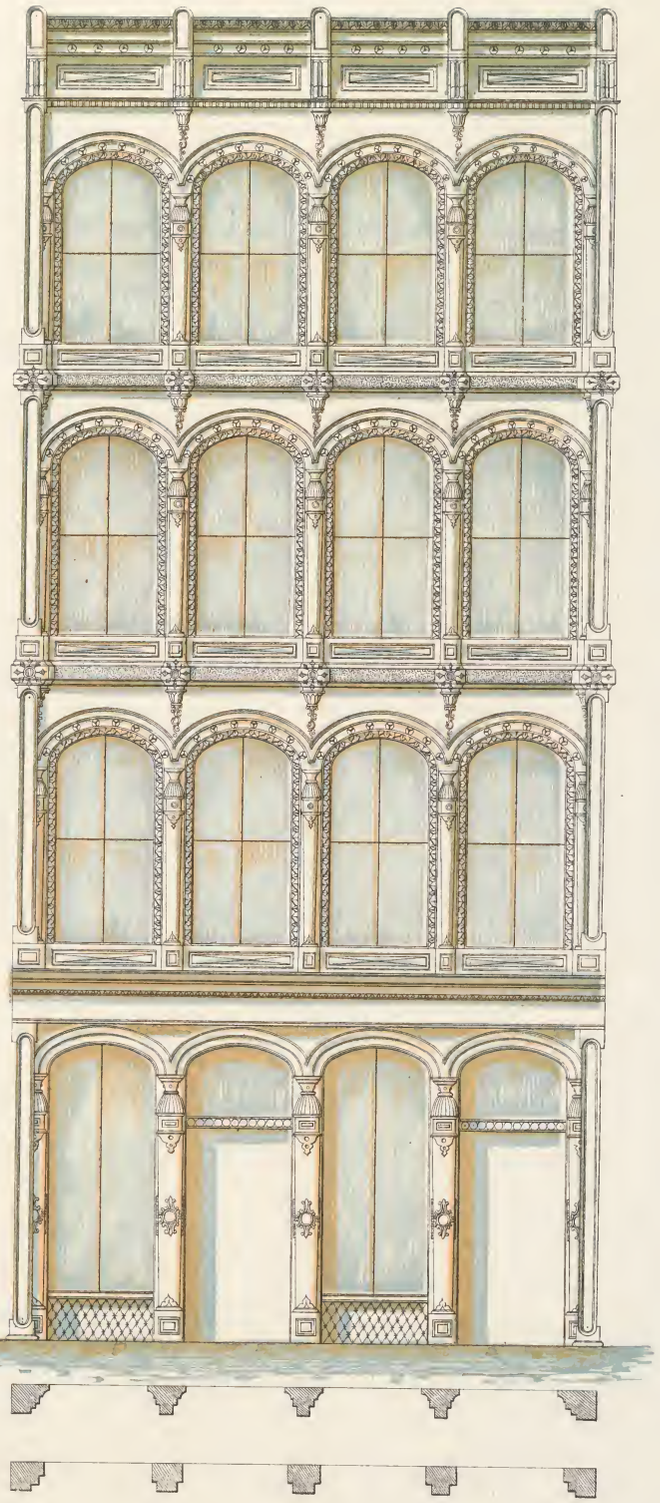
Designs for Store Fronts.

No.42.



No.48.

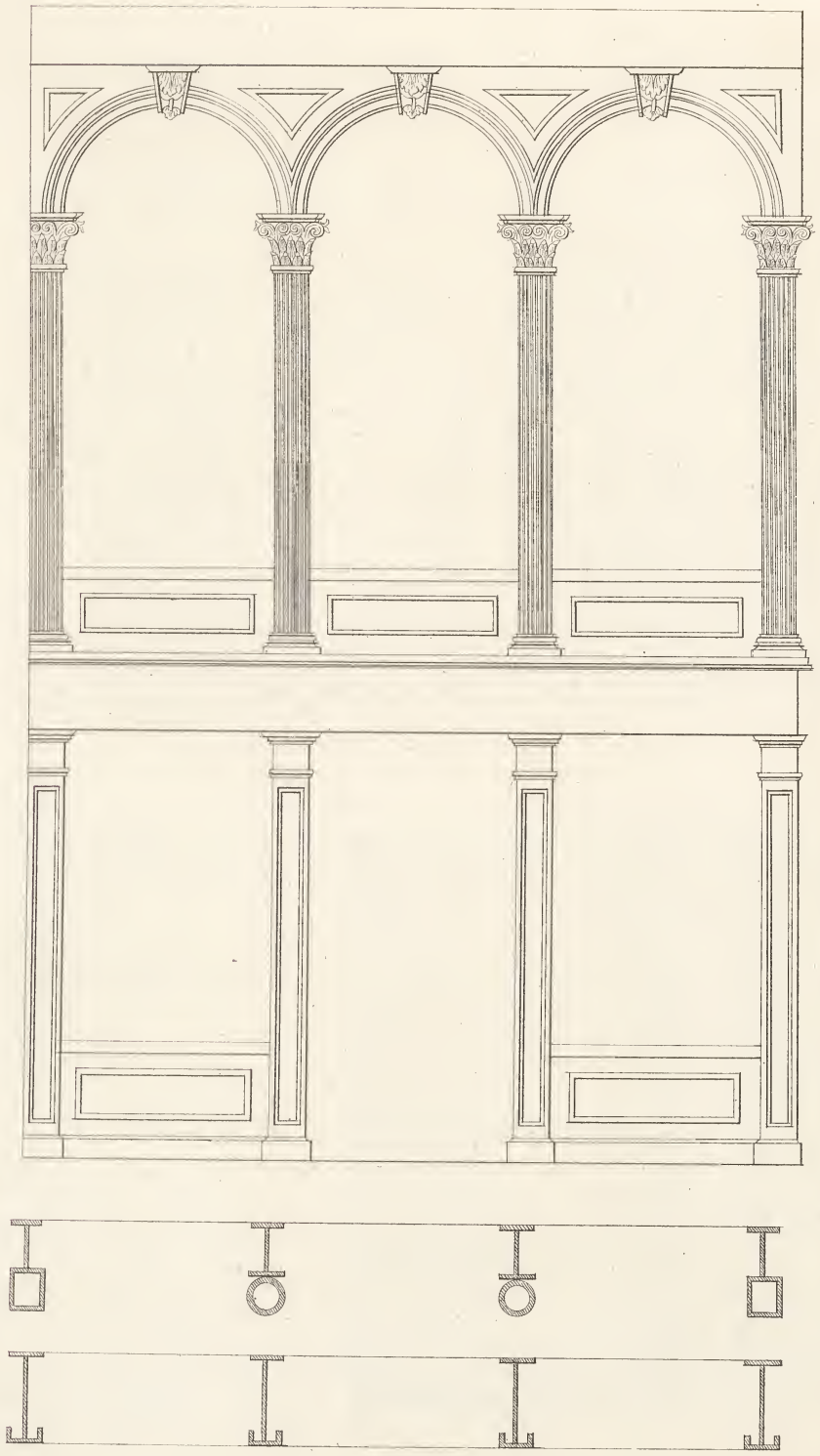
No.46.



ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Lith of Sarony, Major & Knapp, 449 Broadway, N.Y.

No. 17



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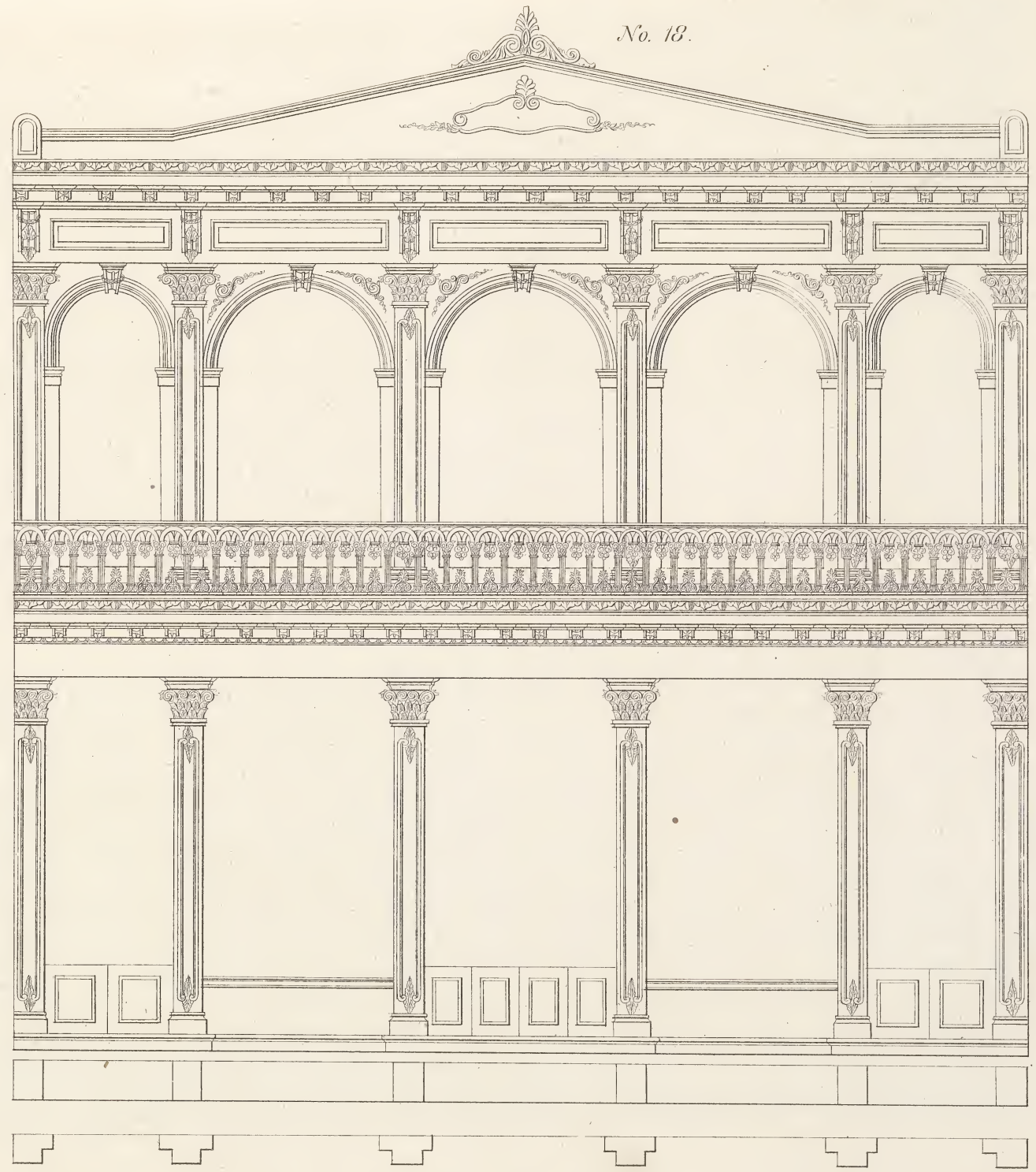
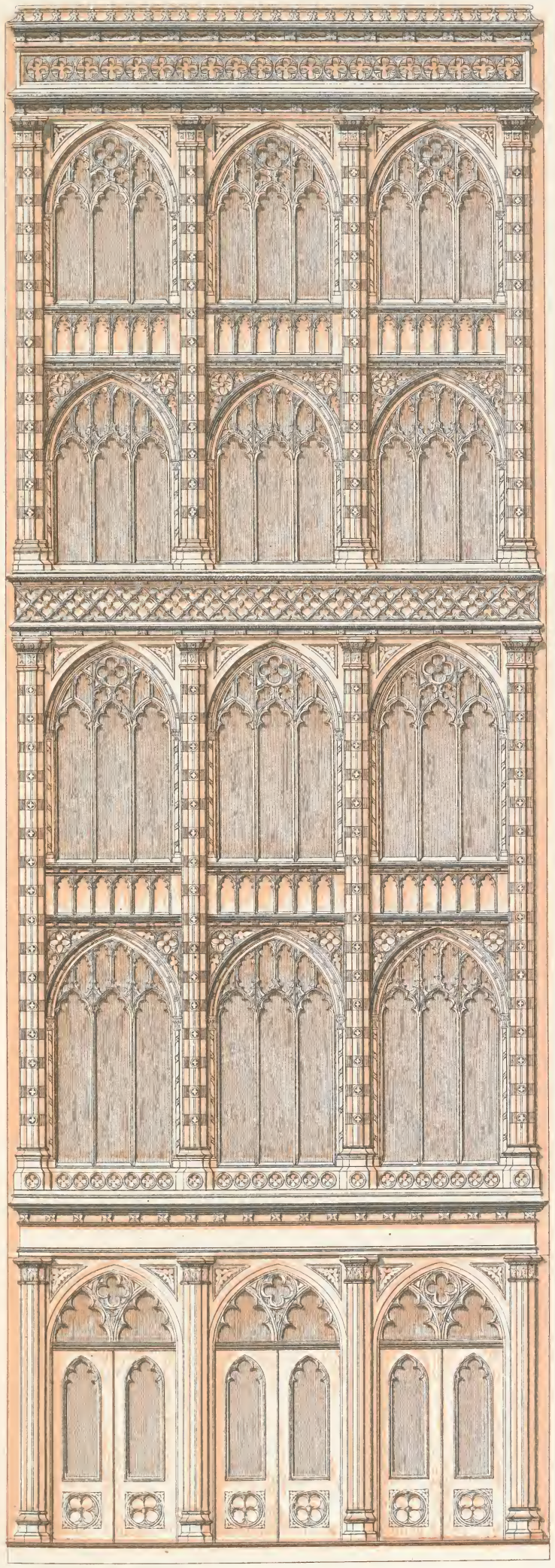


ARCHITECTURAL IRON WORKS. NEW YORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

No. 10



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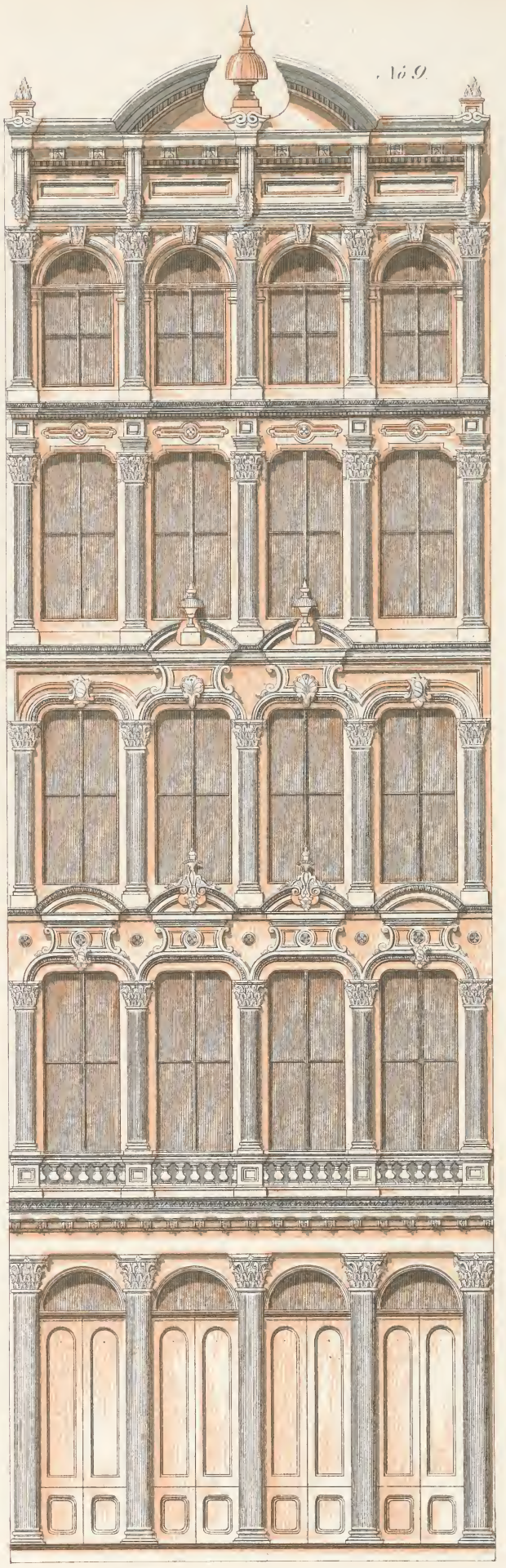
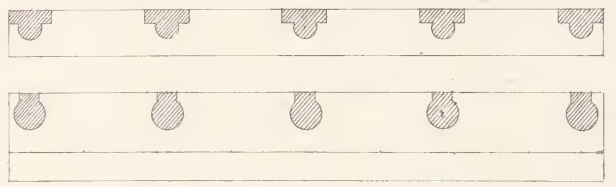
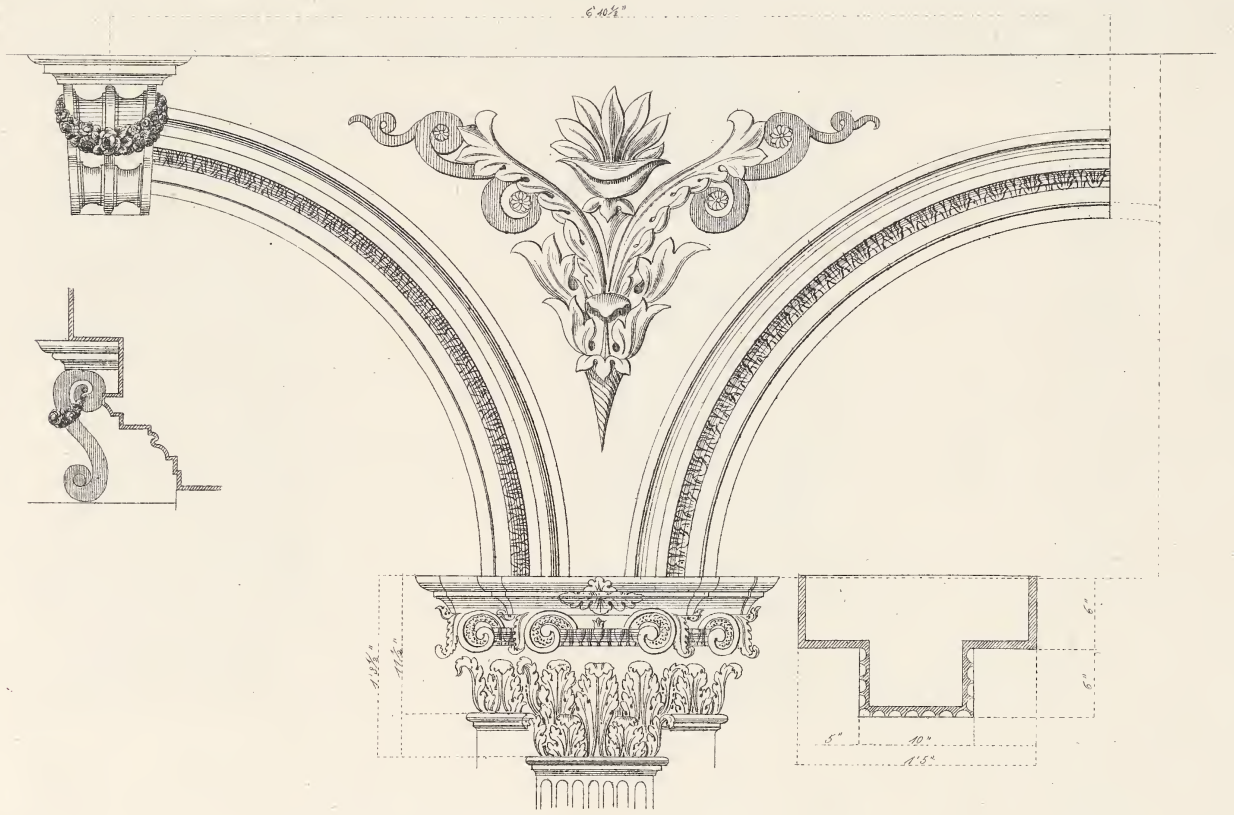




ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Plate. XXXIX.

Arches, Keys, Capitals & Section of Piers.



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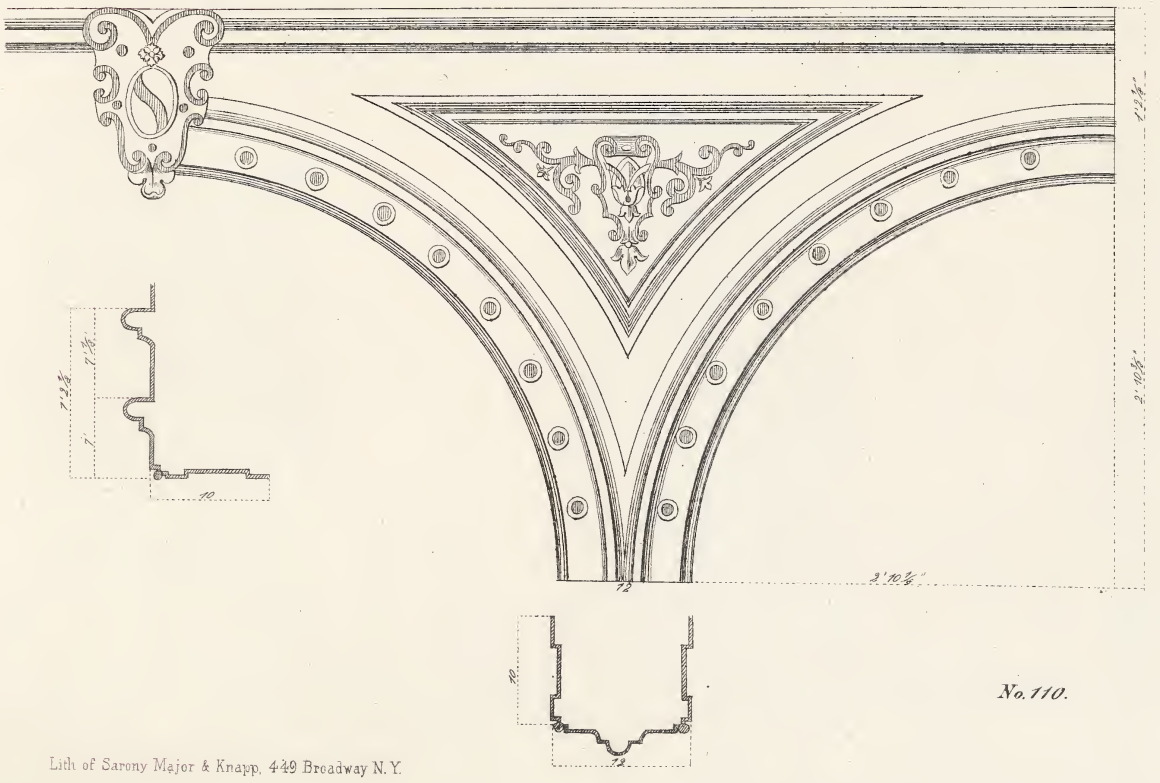


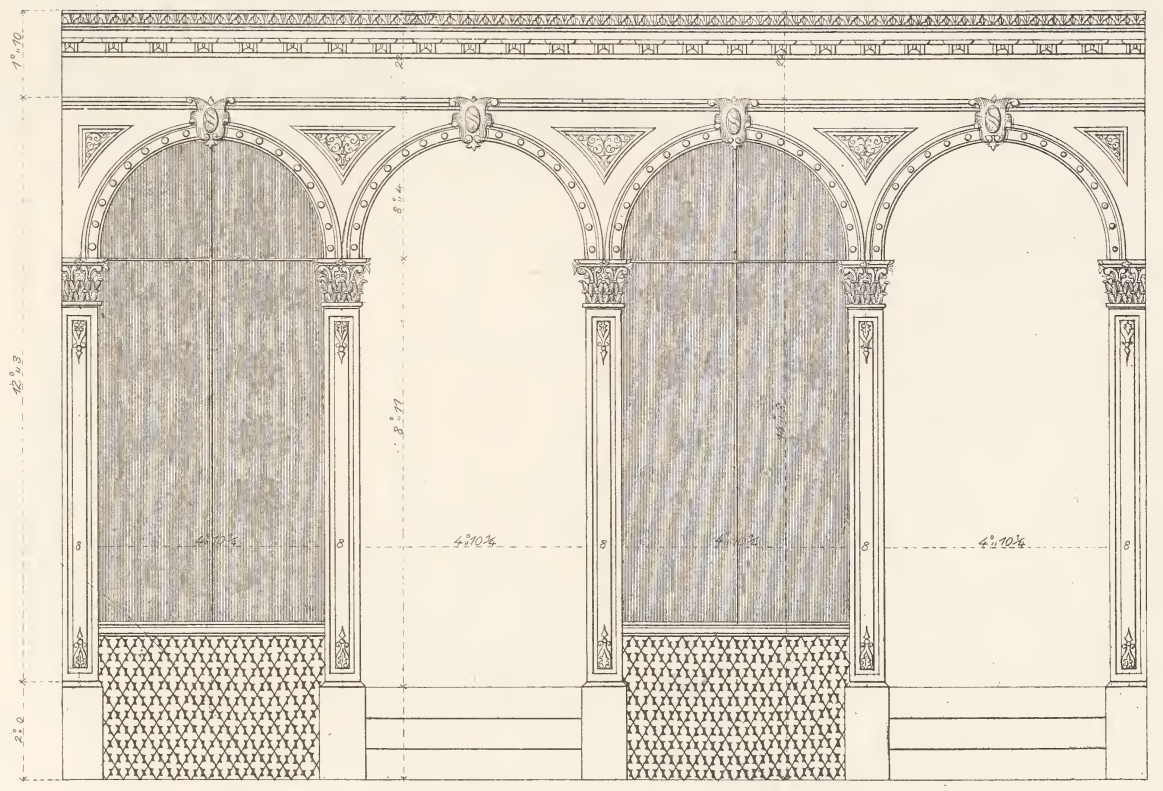
No. 110.

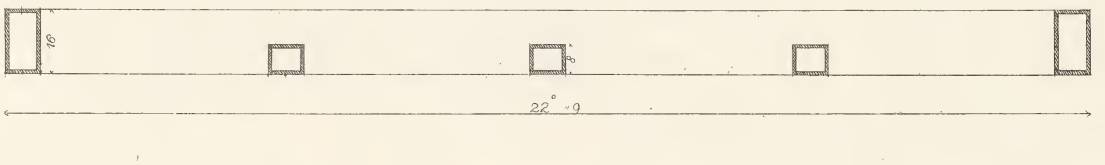
Lith of Sarony Major & Knapp, 449 Broadway N.Y.

Plate XL.

Store Front for Mr Kramer
Boston, Mass.

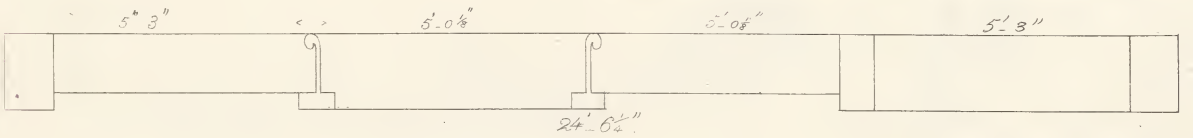
No:67.





Store Front for 267 Bowery.

No:68.



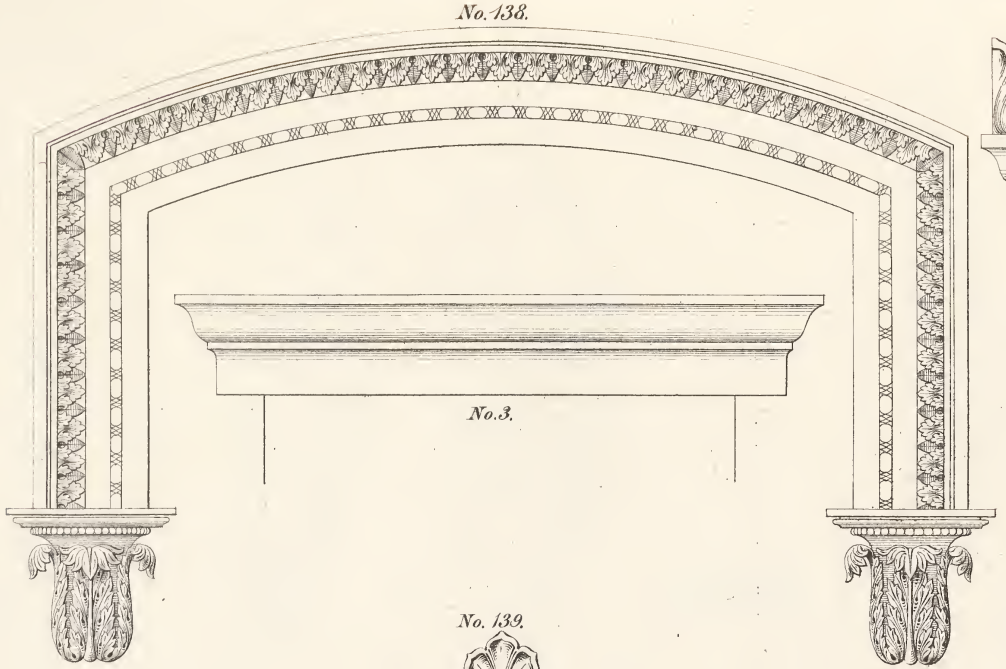
Lith. of Sarony Major & Knapp 449 Broadway N.Y.

ARCHITECTURAL IRON WORKS.—NEW YORK.

Plate XLI.

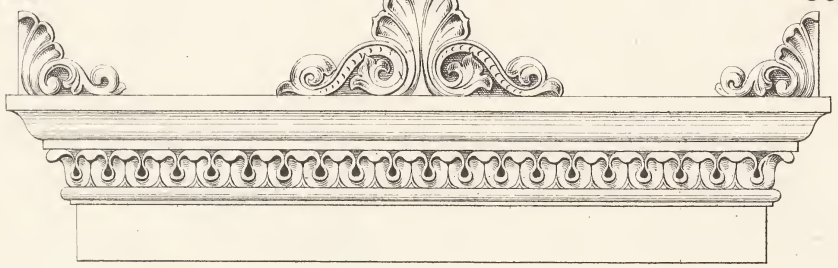
Window Lintels.

No.138.



No.3.

No. 139.



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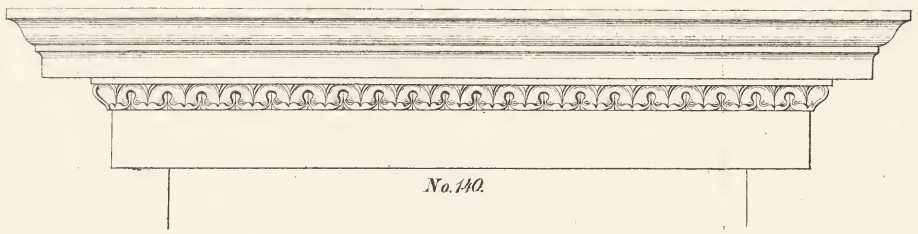

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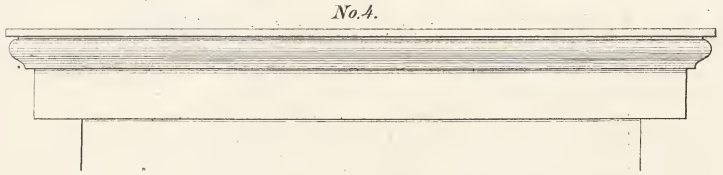

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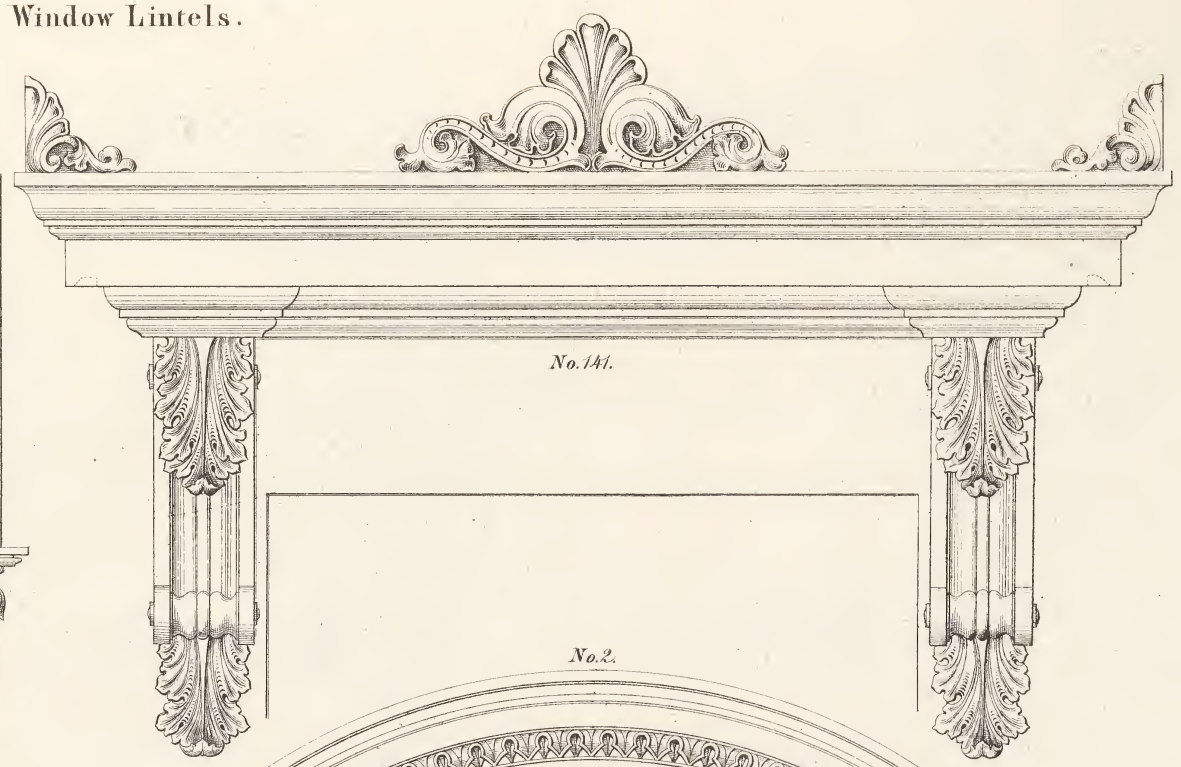

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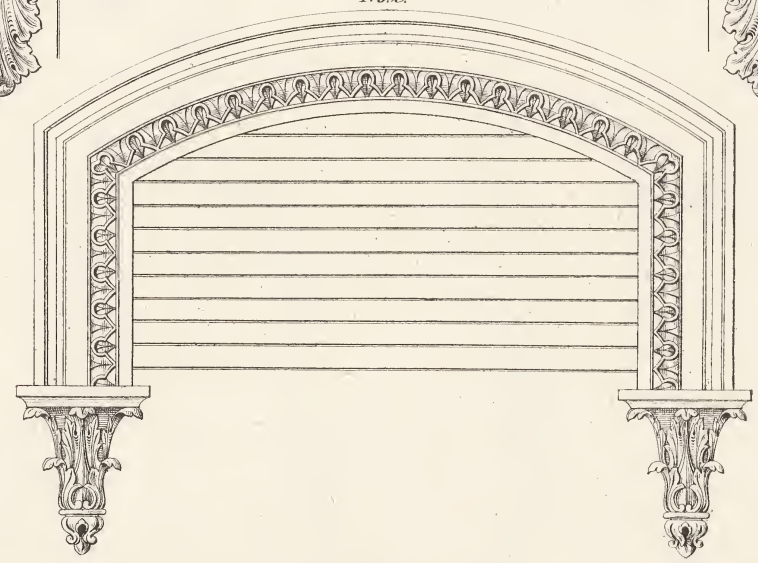

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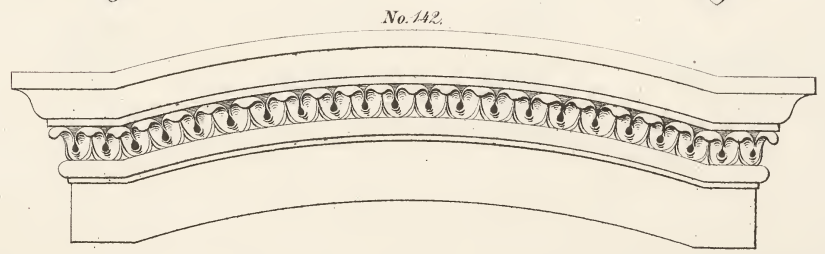
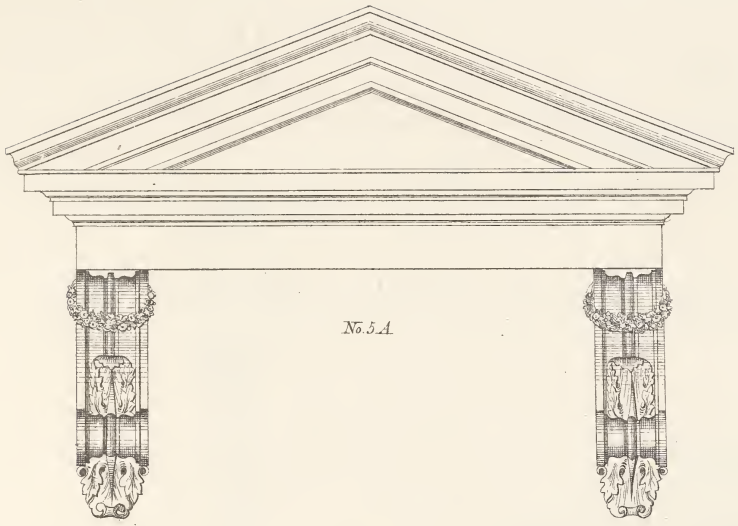


Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

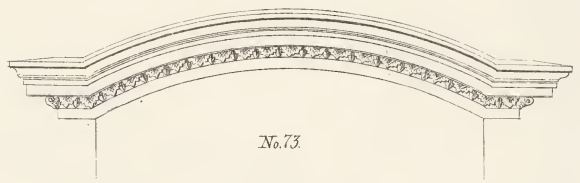
Plate XLIII.

Window Lintels.



No. 5 A.

No. 68.



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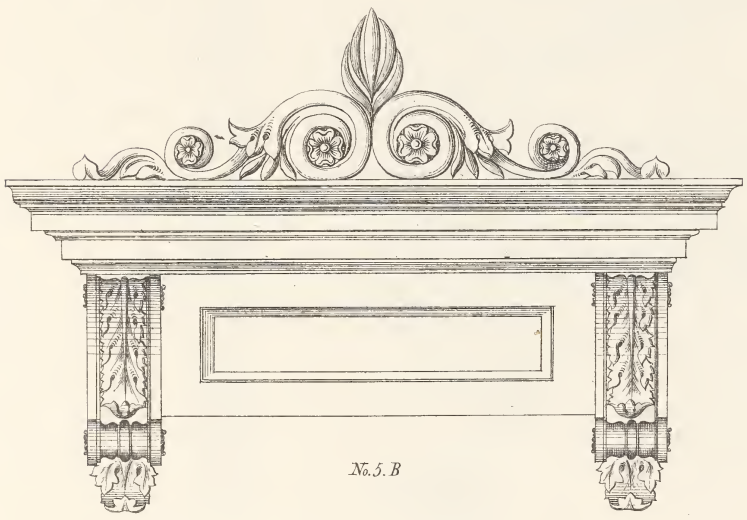

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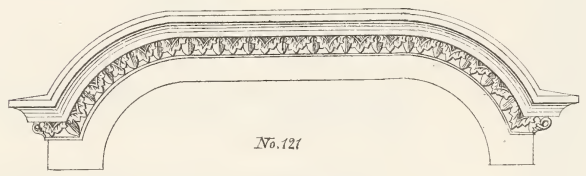

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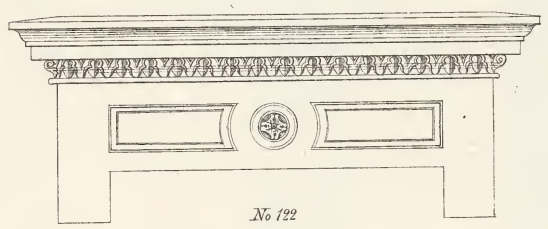
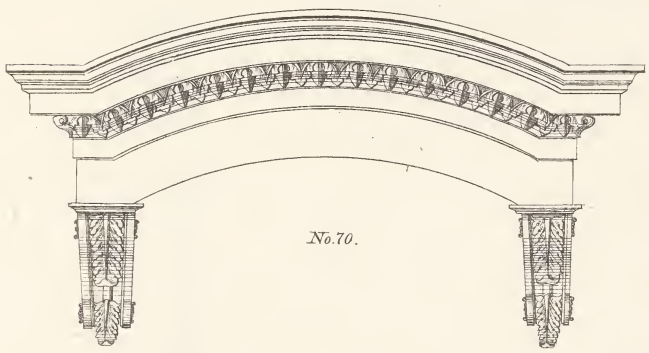


No 122



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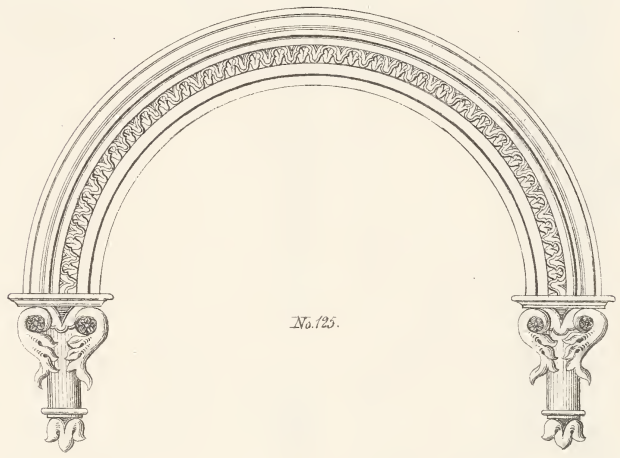

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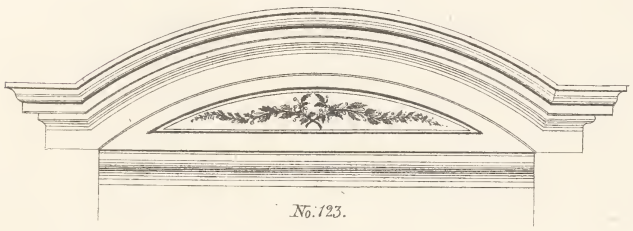
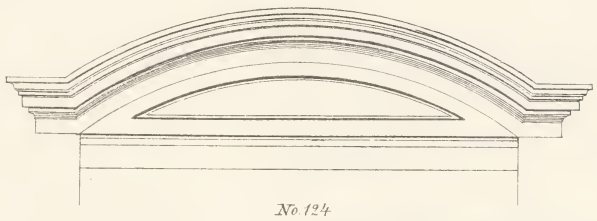


No. 123.

No 77



No. 124

Lith. of Sarony Major & Knapp, 449 Broadway

ARCHITECTURAL IRON WORKS NEW YORK.

Plate XLIII.

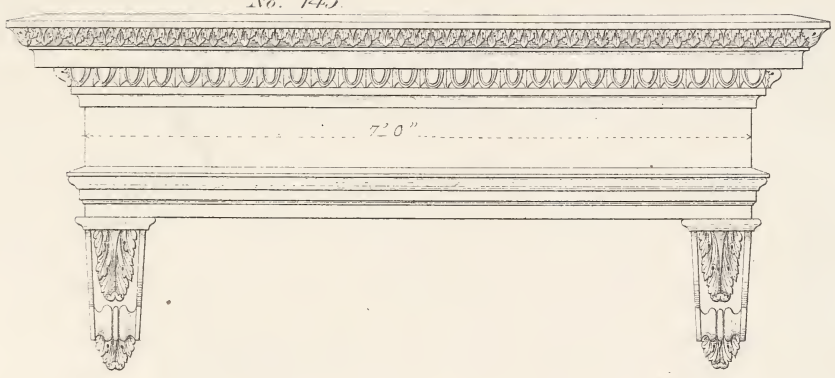
Awning Posts & Rod.

Window Lintel Architraves & Sill.

ARCHITECTURAL IRON WORKS,_NEW-YORK.

Window Lintels. Lamp Post. etc.

No. 145.



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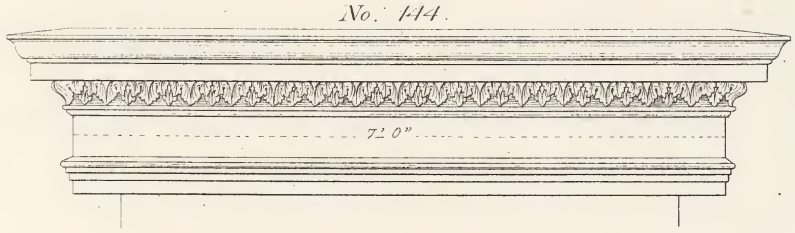

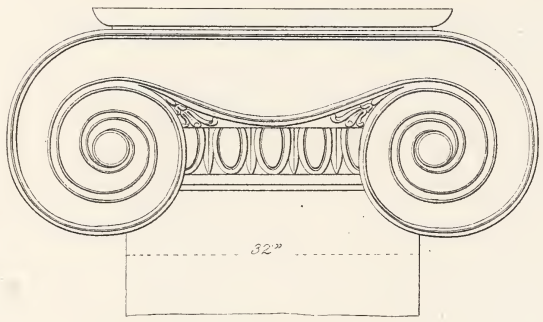

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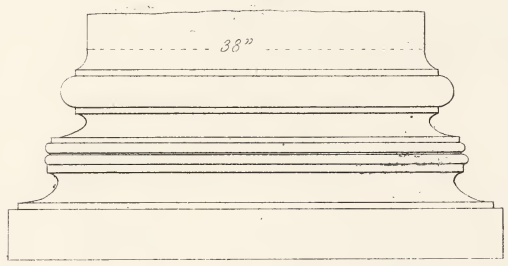
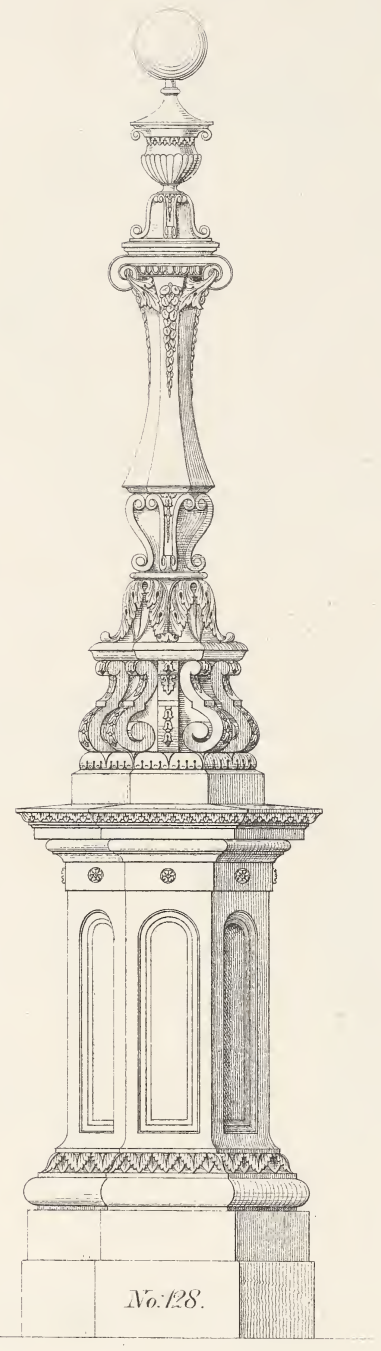
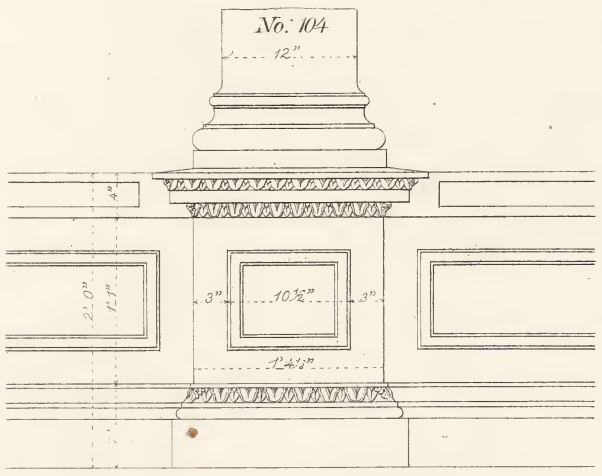
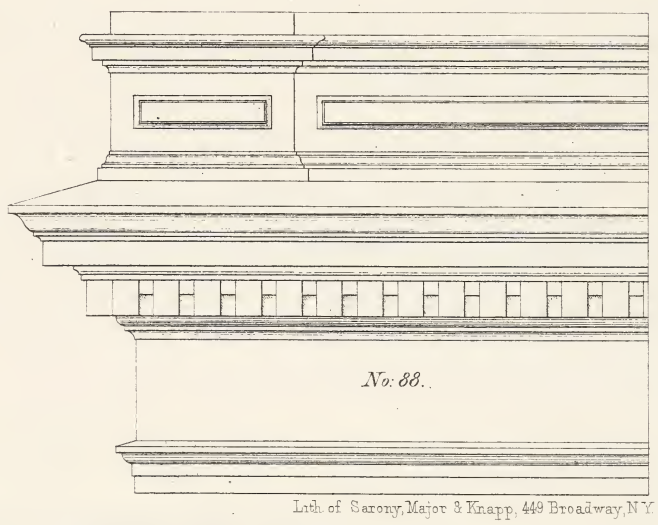




No. 128.

No. 104





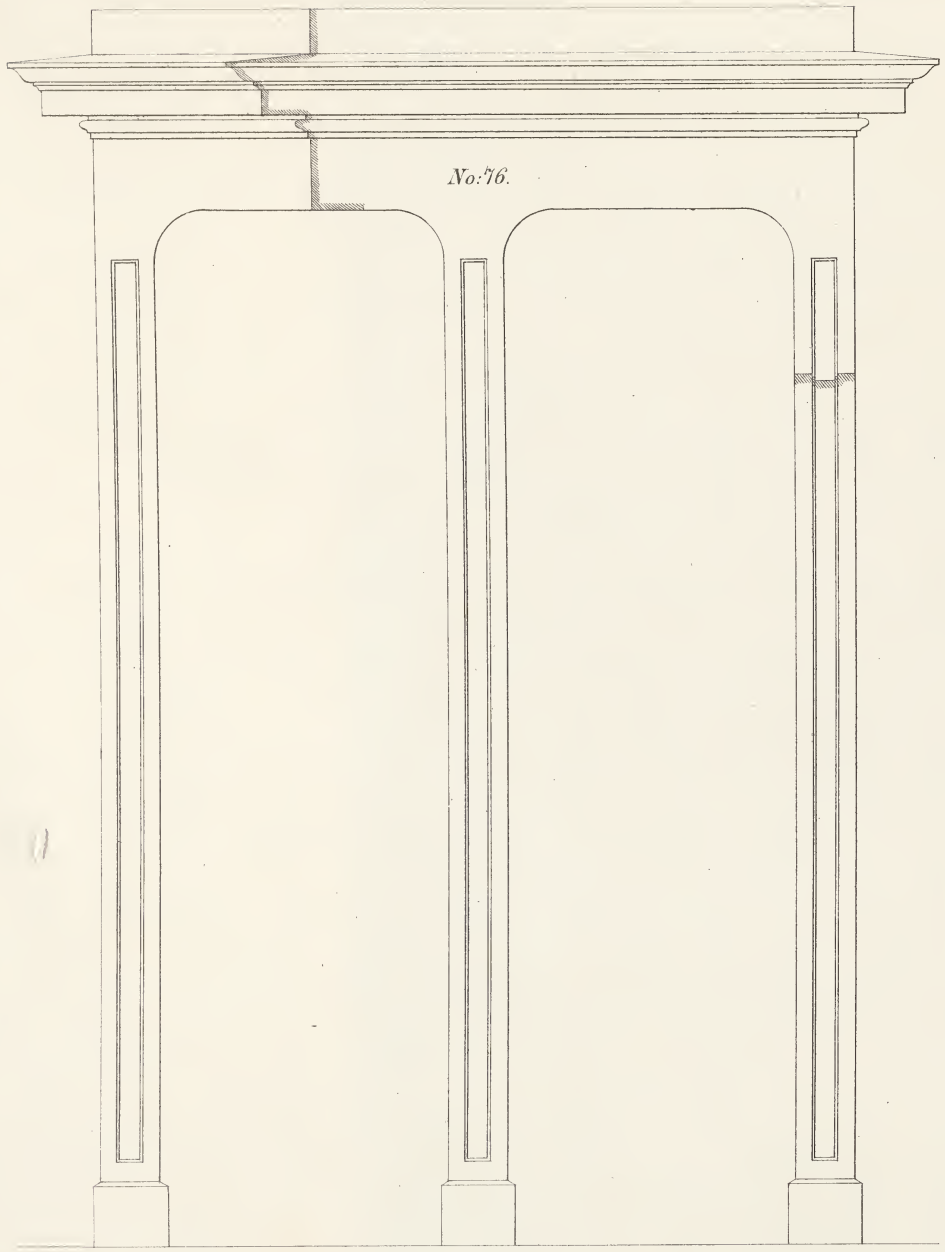
No. 88.

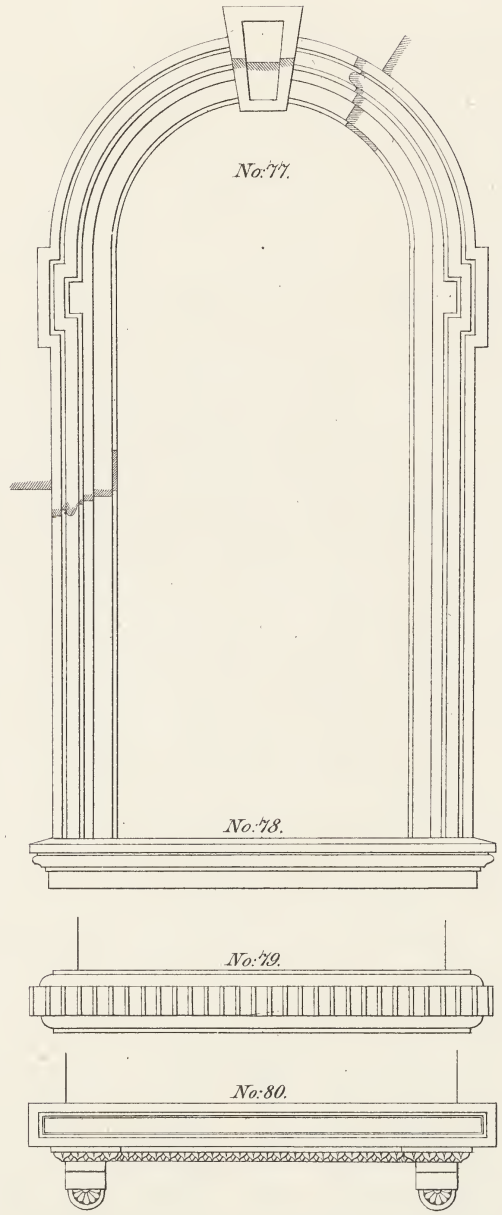
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

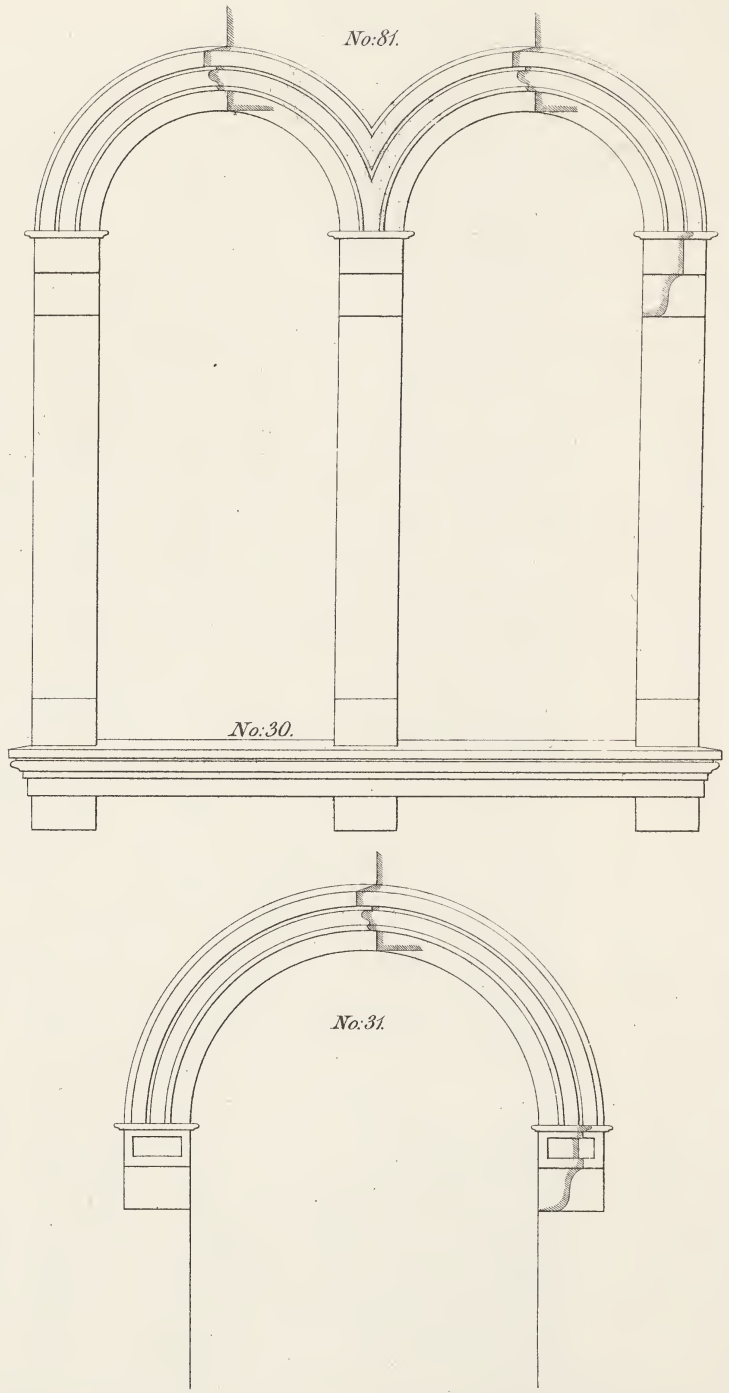
ARCHITECTURAL IRON WORKS,_ NEW-YORK

Plate XLV.

Window Lintels, Architraves & Sills.



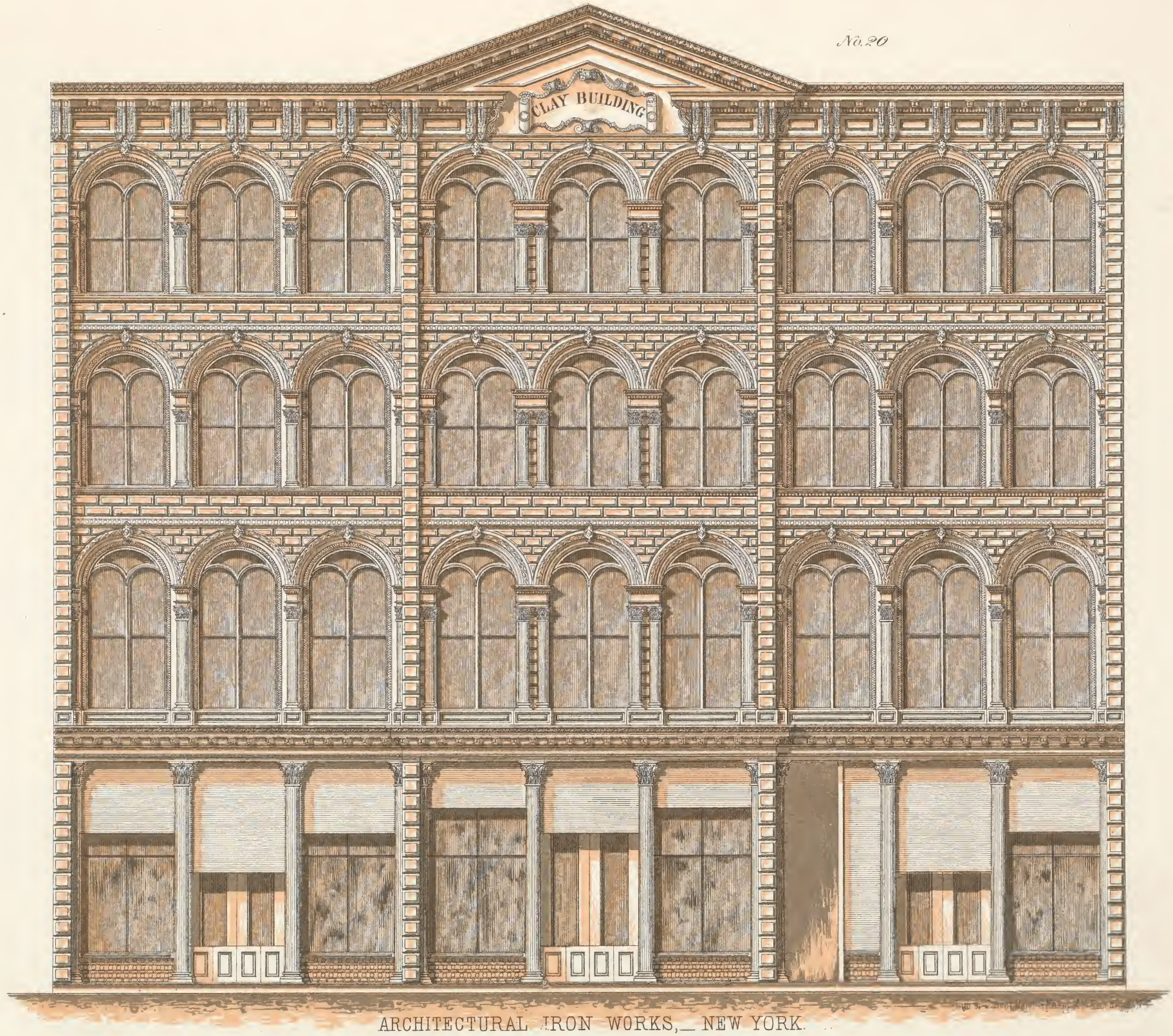




ARCHITECTURAL IRON WORKS,—NEW-YORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

No. 20

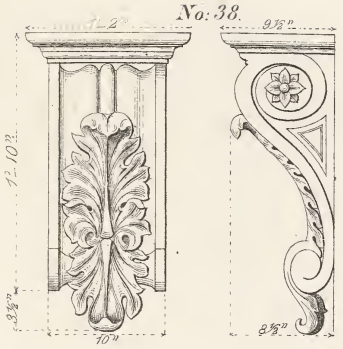


ARCHITECTURAL IRON WORKS,_ NEW YORK.

Plate XLVII.

Consoles and Brackets.

No: 38.



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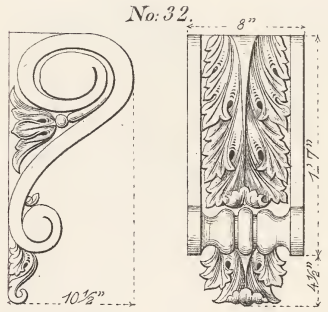

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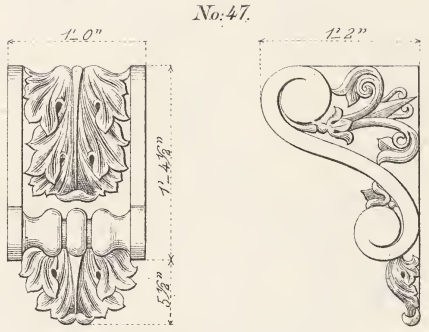

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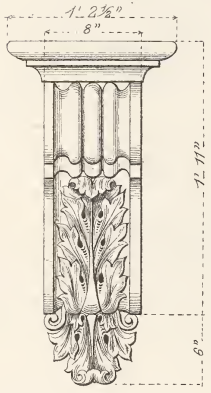
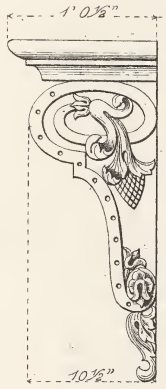
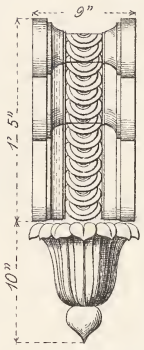
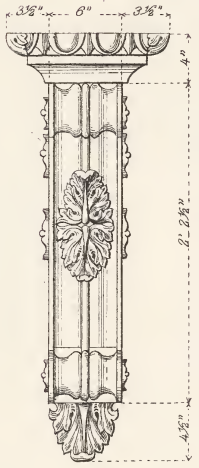






No: 67.

No: 53.



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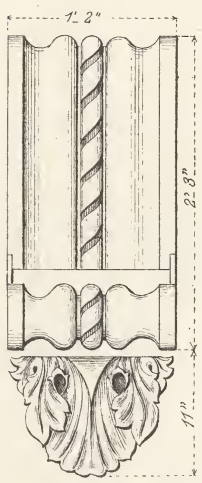
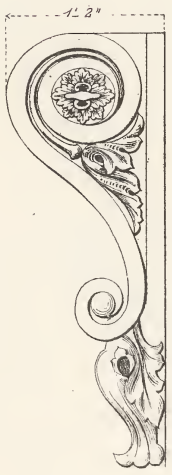
No: 8.





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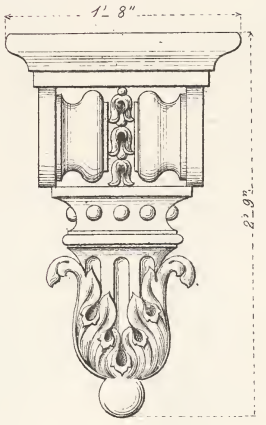
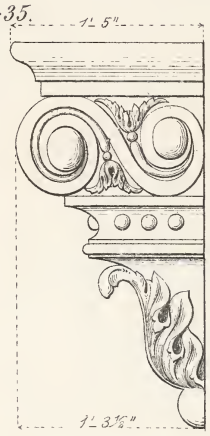


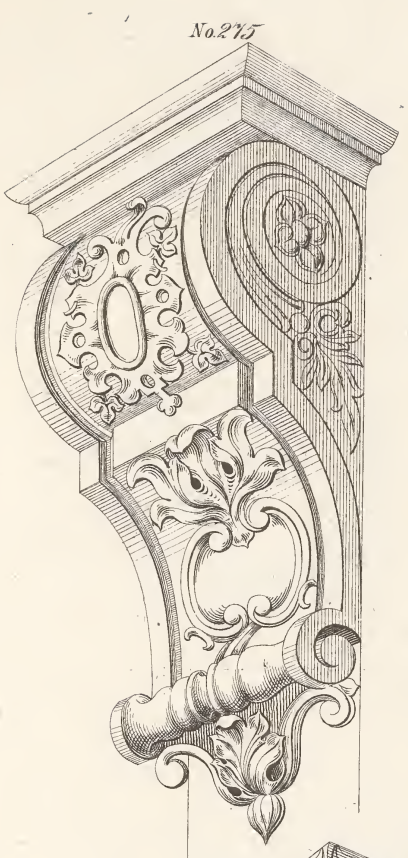


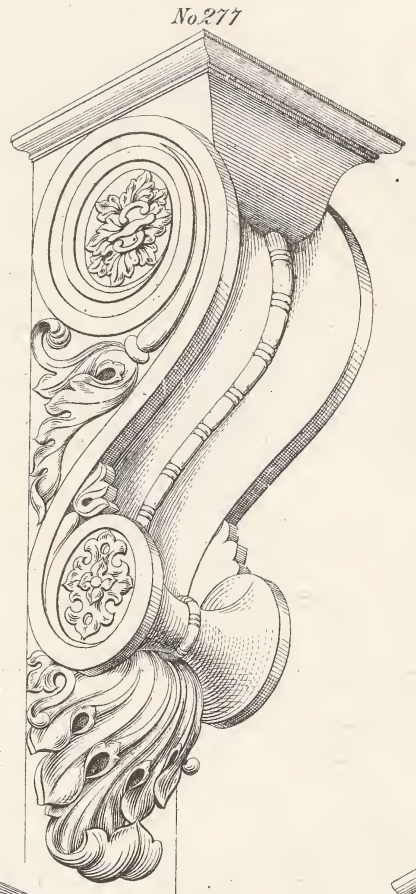
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,_ NEW-YORK

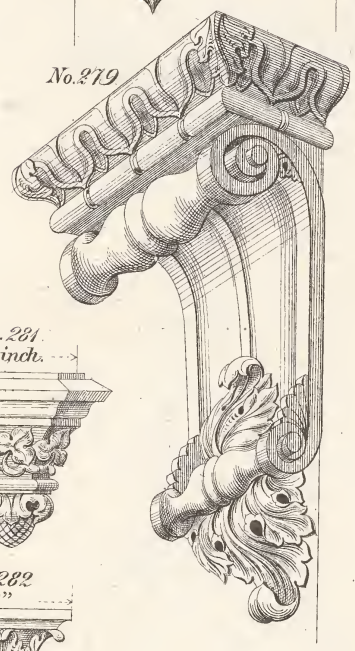
Plate XLVIII.

Consoles Corbels & Urn.


No.275


No.277


No: 278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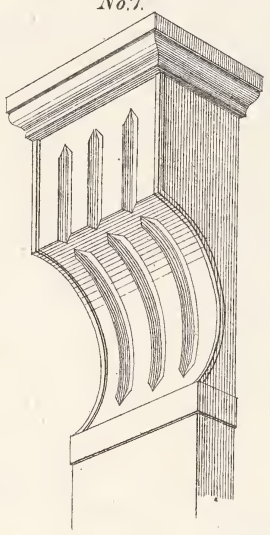
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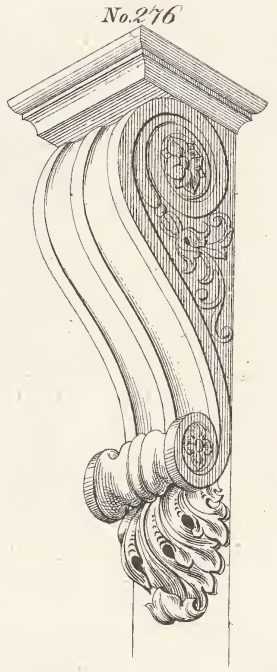
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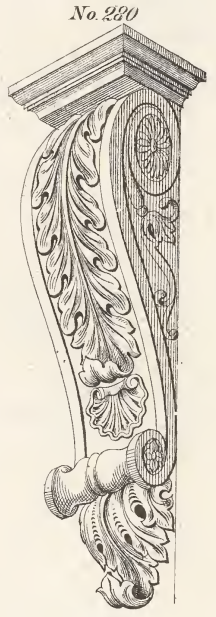
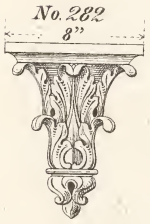
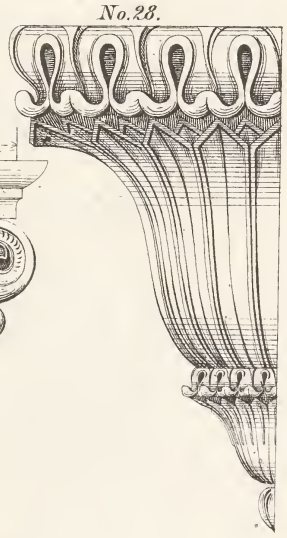

No.280

No.281
4 inch.


No.282
3"


No.283
8 inch.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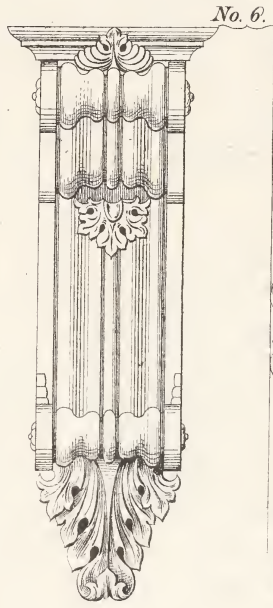

No. 6.

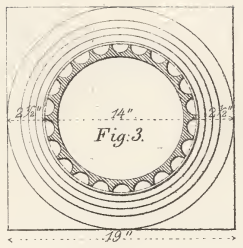
No.284.
6 inch.

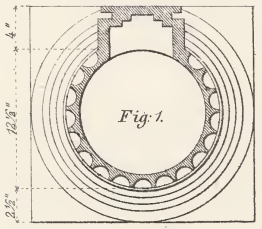
Lith. of Sarony, Major & Knapp, 449 Broadway, NY

ARCHITECTURAL IRON WORKS,_NEW-YORK.

Plate XLIX.

Elevations and Sections of Columns and Capitals.





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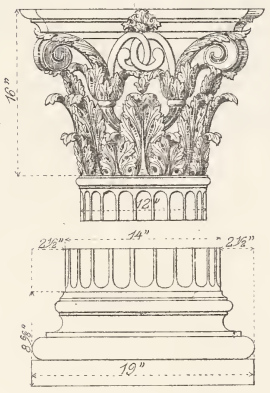

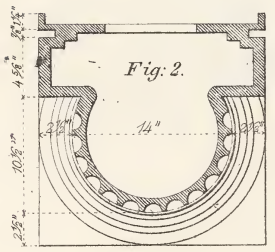

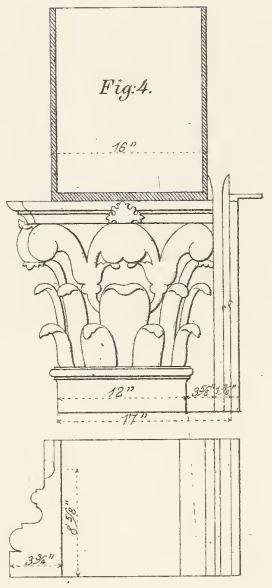

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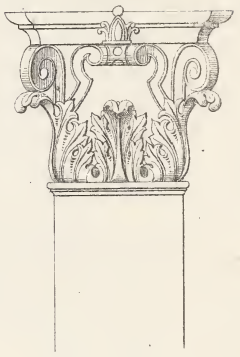

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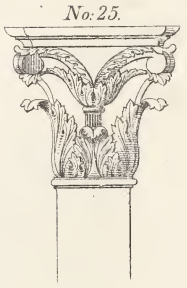

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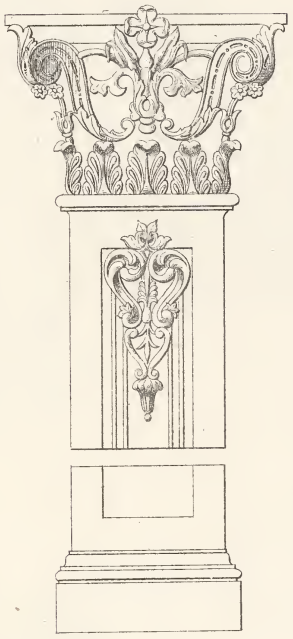

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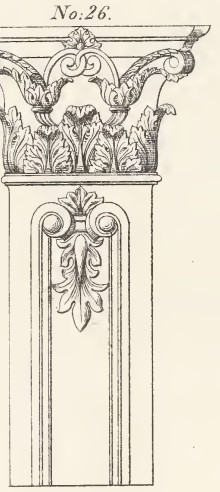

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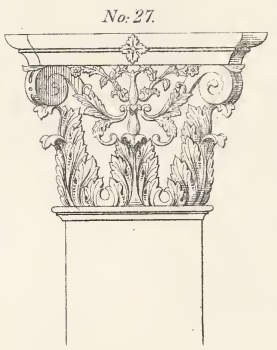

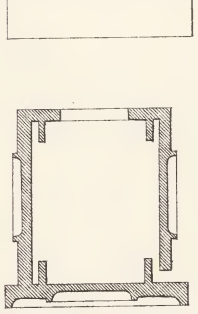

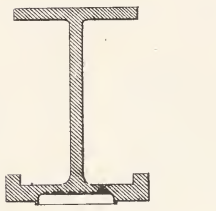

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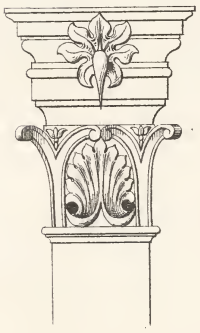

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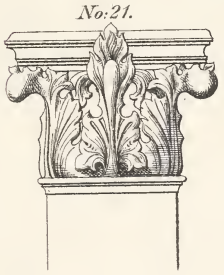

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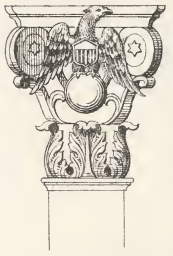
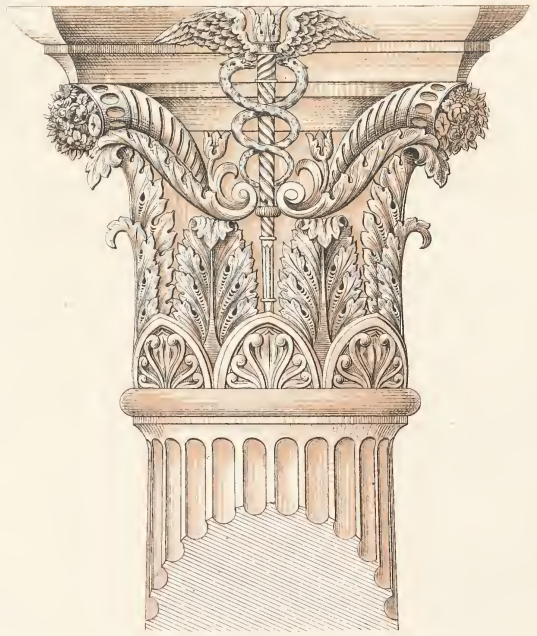


Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

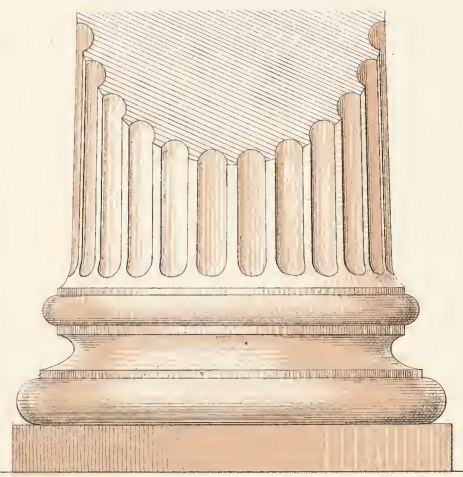
ARCHITECTURAL IRON WORKS,_ NEW-YORK.

Plate. L.

Stewart Capital.

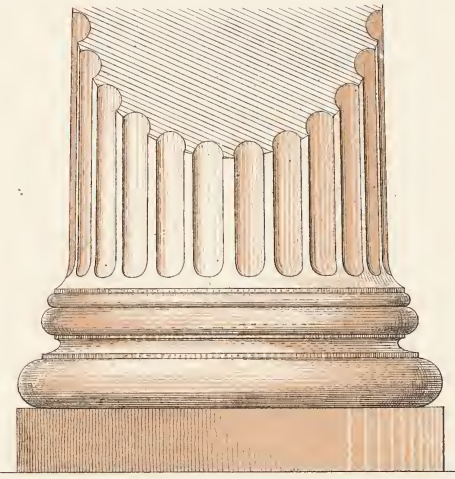


No 146

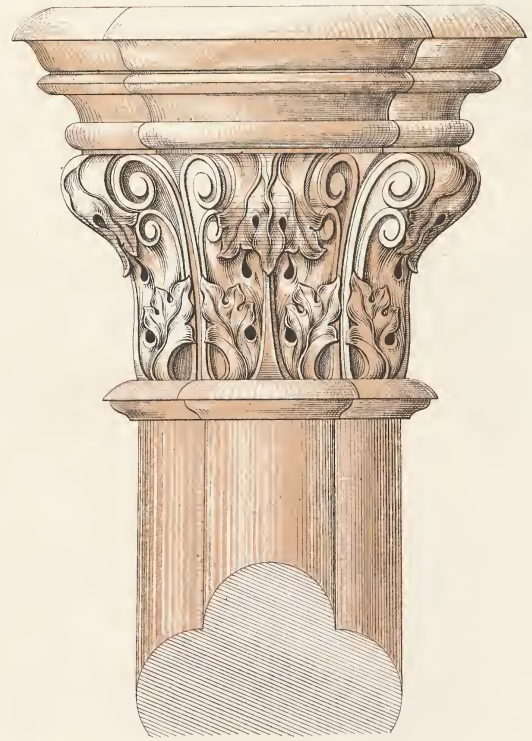


Stewart Capital.

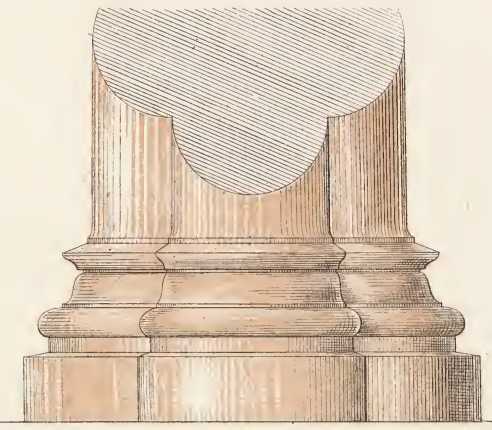
No 147



Gothic Capital.



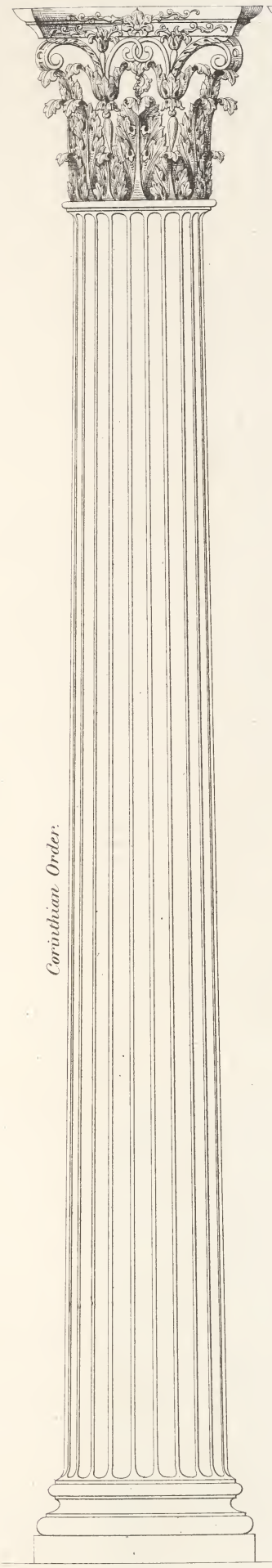
No. 148



Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

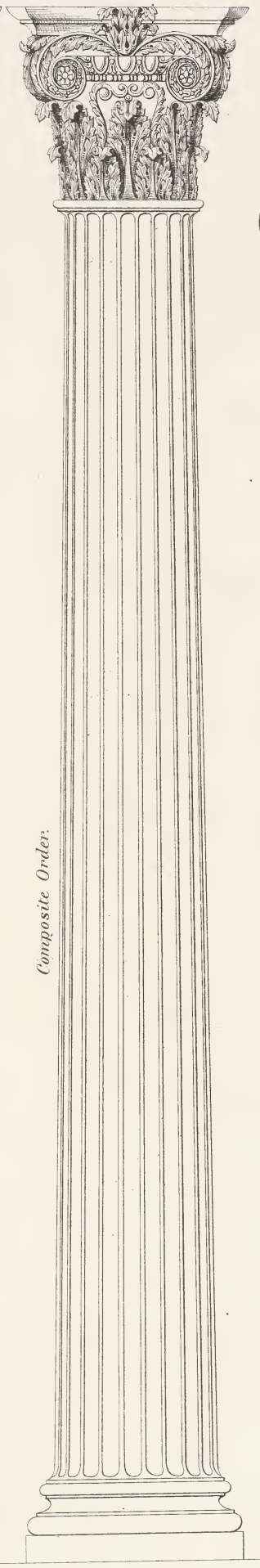
ARCHITECTURAL IRON WORKS, _ NEW-YORK.

No:157.



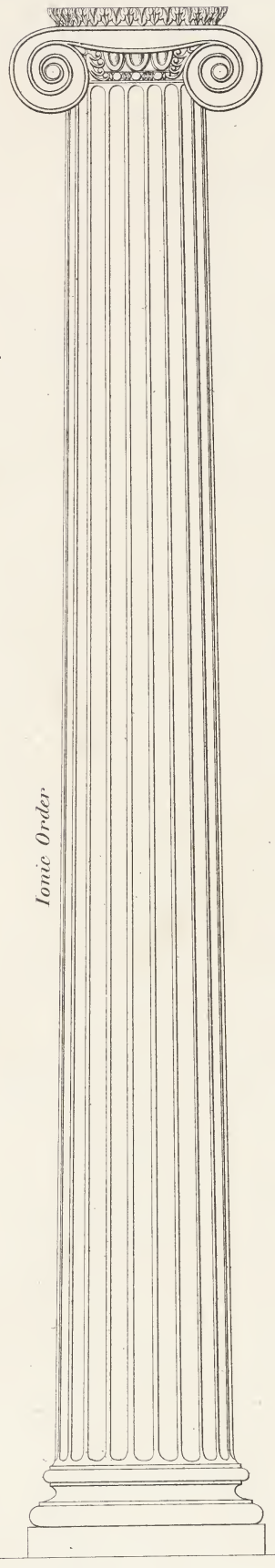
Corinthian Order.

No:158.



Composite Order.

No:159.

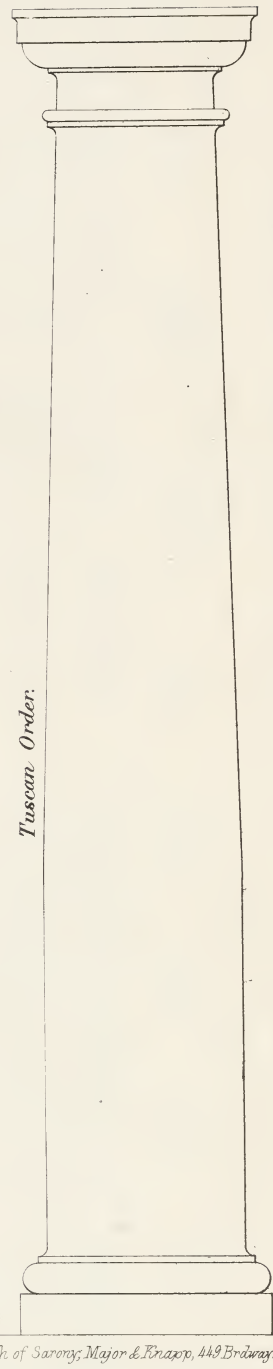


Ionic Order.

No:160.

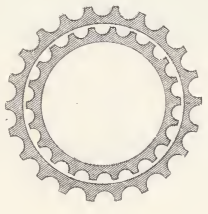
Doric Order

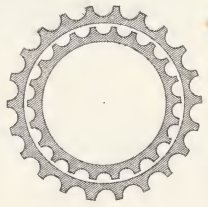
No:161.

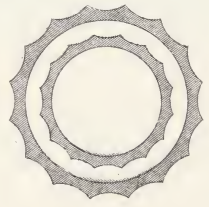


Tuscan Order.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.







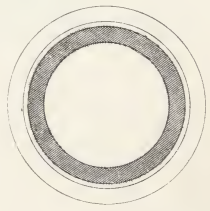
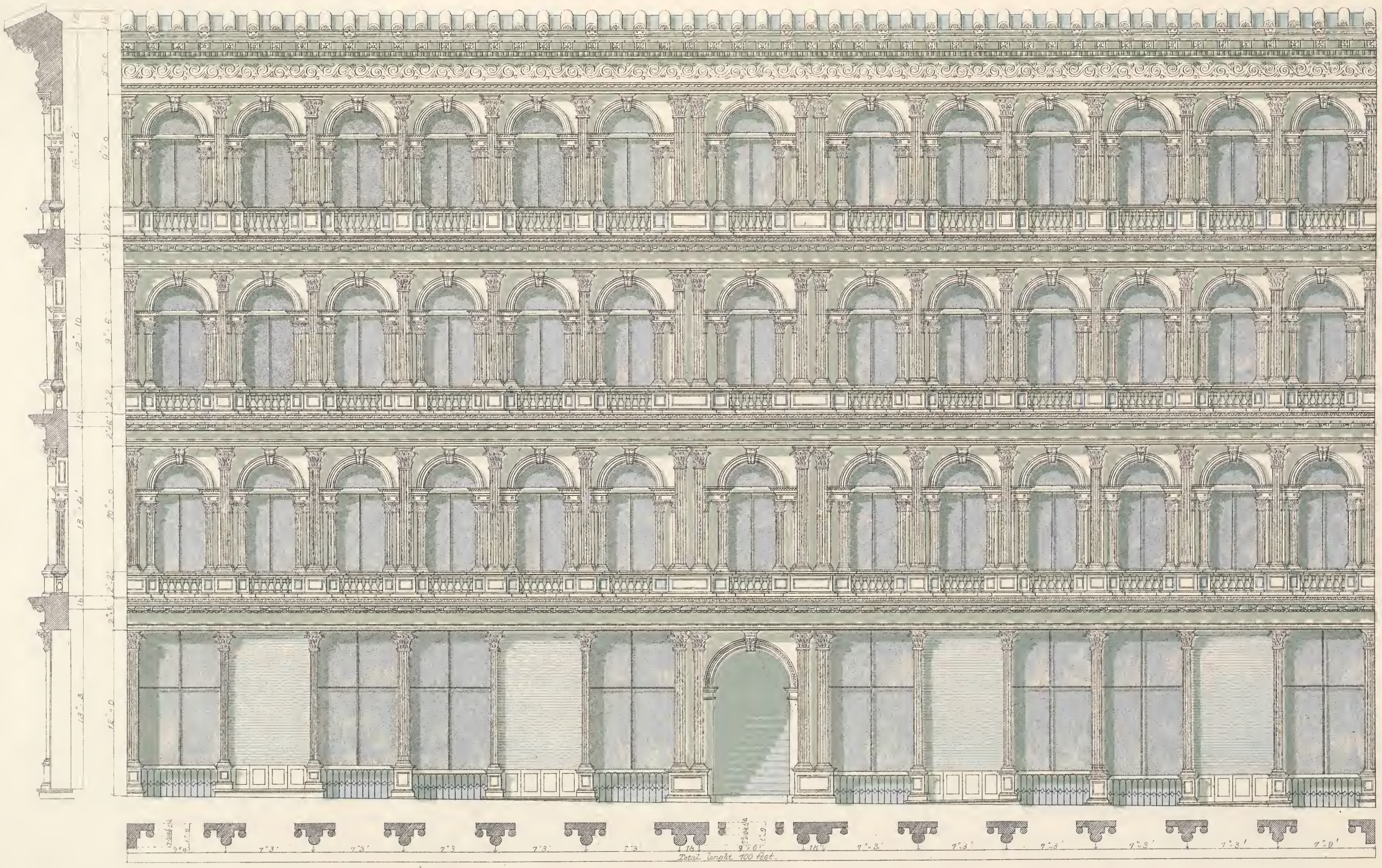


Plate LII.

No. 13.

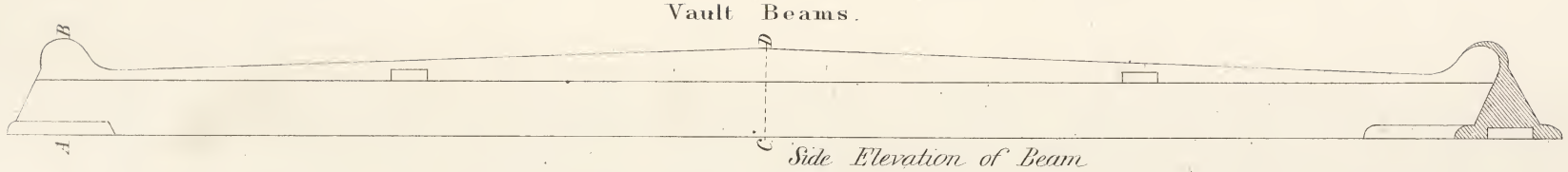
HALSEY BUILDING, BROOKLYN.



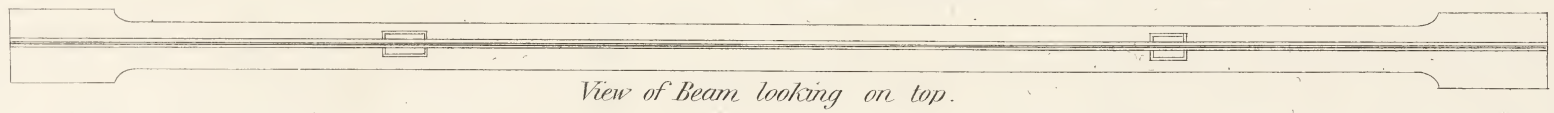
ARCHITECTURAL IRON WORKS – NEW YORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

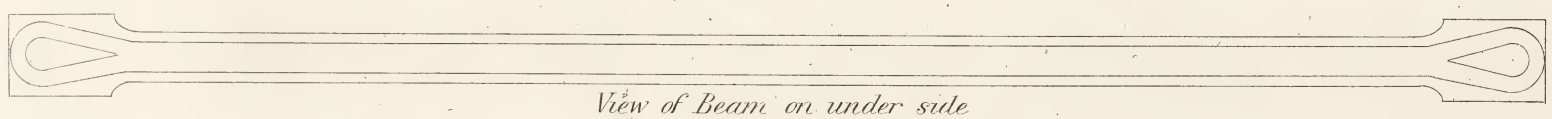
Vault Beams.



Side Elevation of Beam

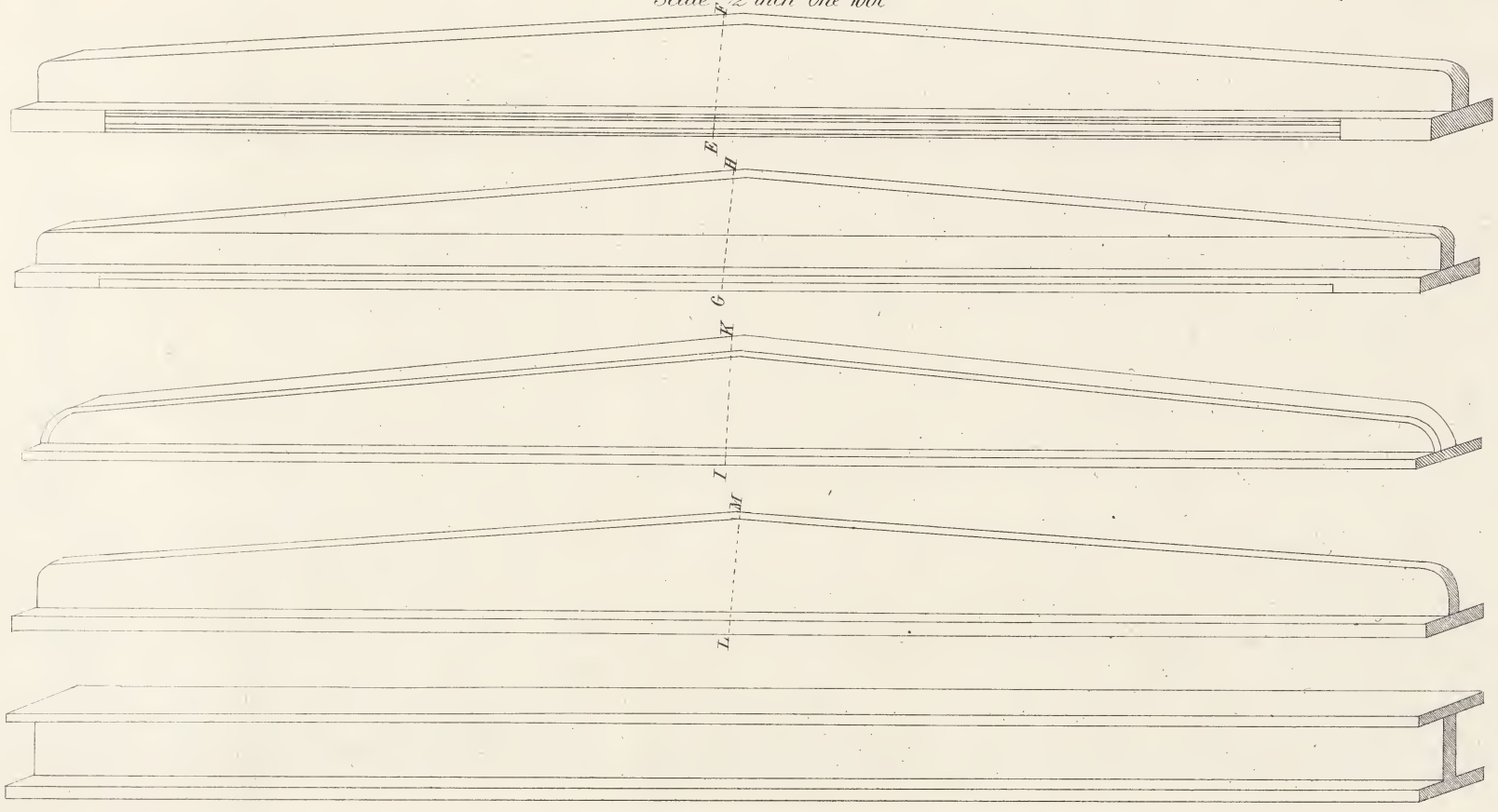


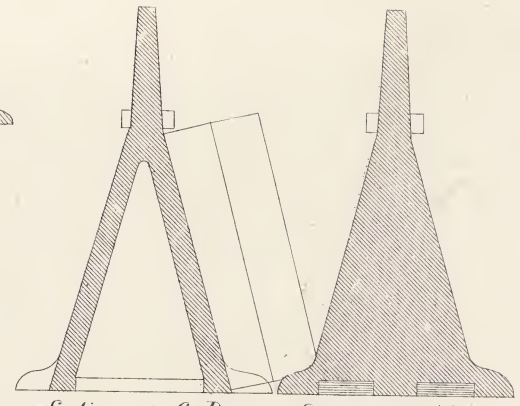
View of Beam looking on top.



View of Beam on under side

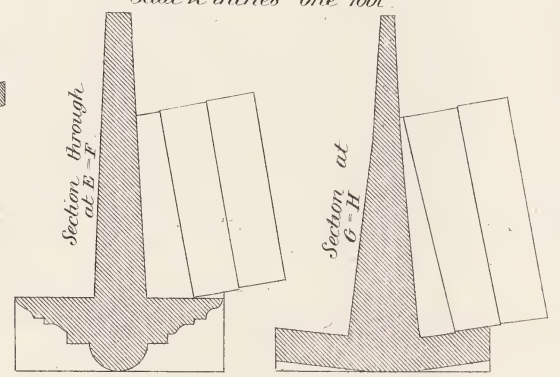
Scale ½ inch one foot

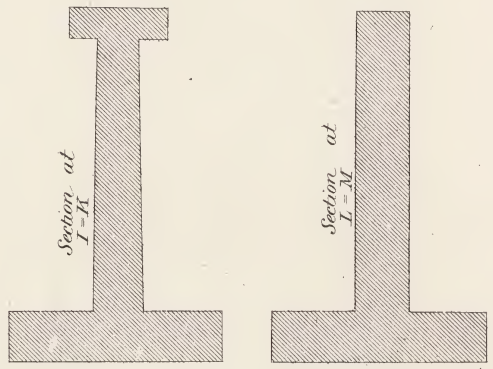




Section at C.D. Section at A.B.

Scale 2 inches one foot





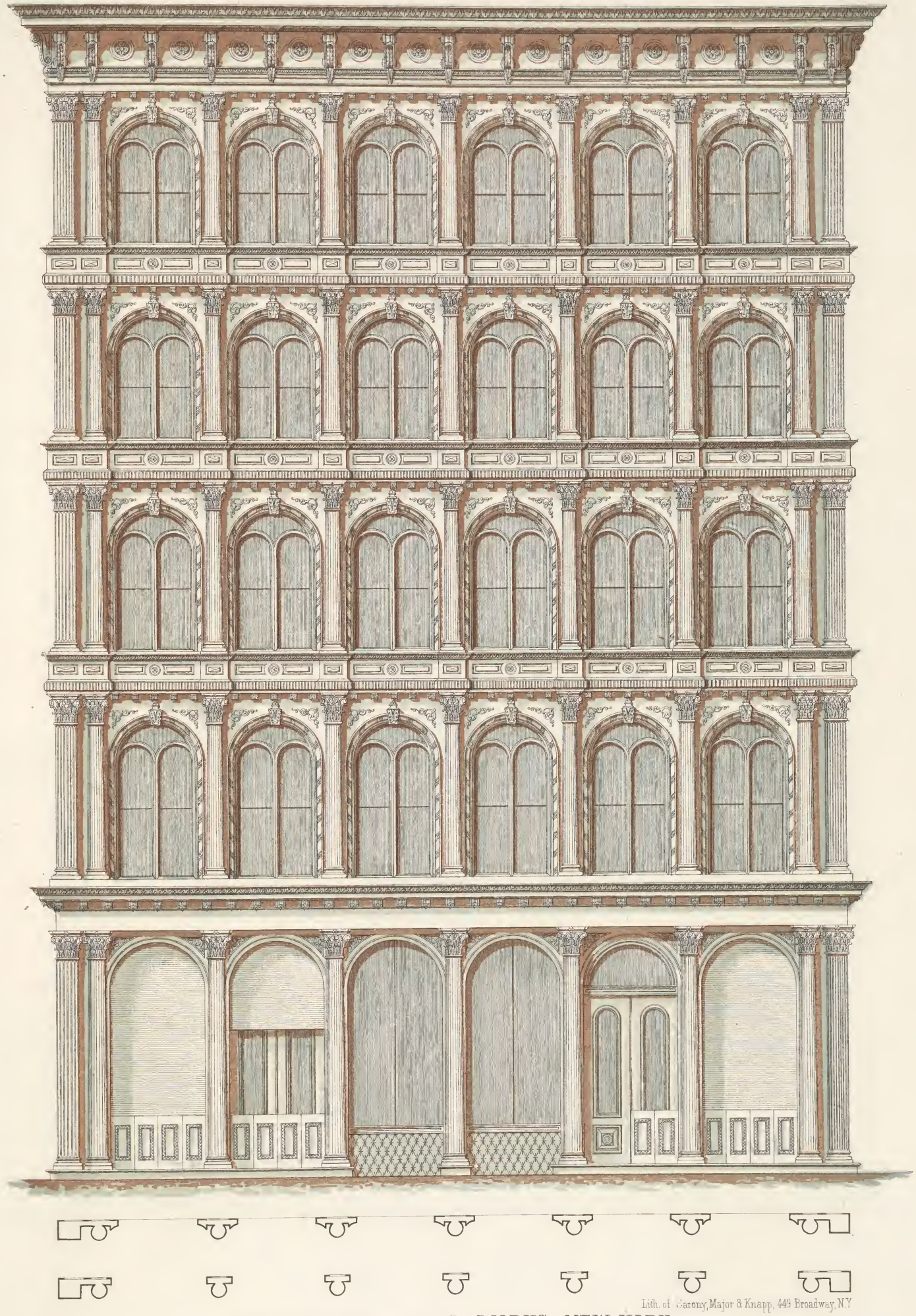
Scale of Section 1½ inches one foot.

ARCHITECTURAL IRON WORKS,_NEW YORK.

Lith of Sarony Major & Knapp, 449 Broadway N.Y.

Plate LIV.

No. 3.



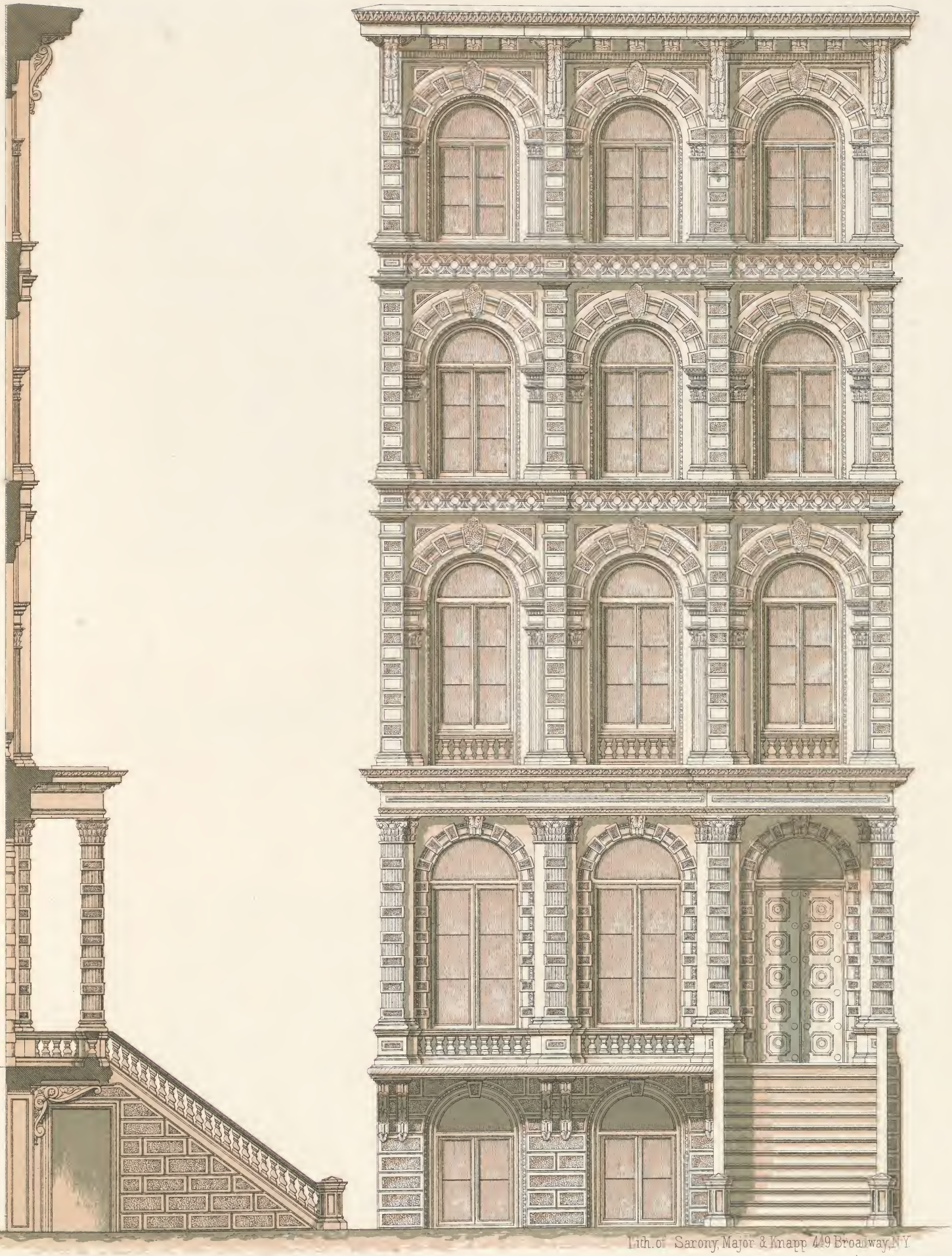
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

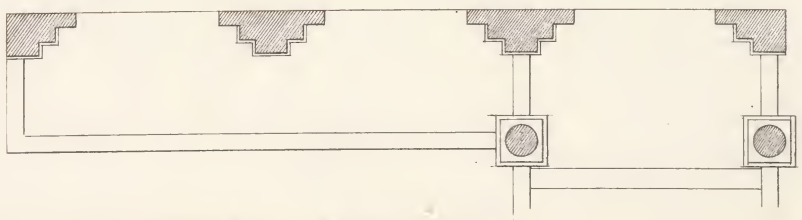
Plate IV.

Design for Front of Dwelling House.

No 41



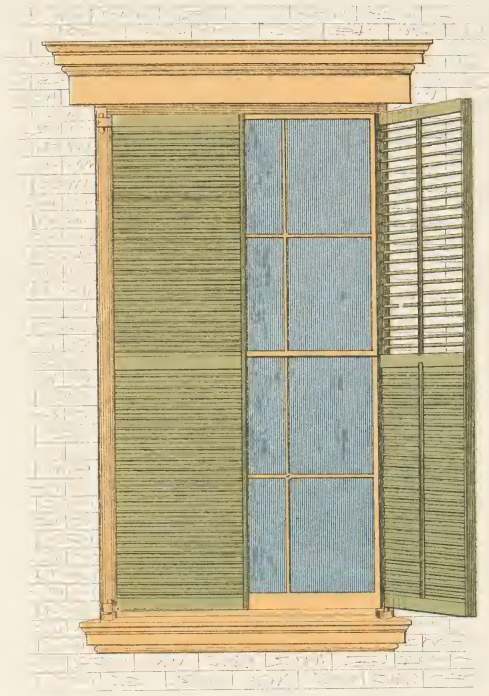
Lith. of Sarony, Major & Knapp 449 Broadway, N.Y.



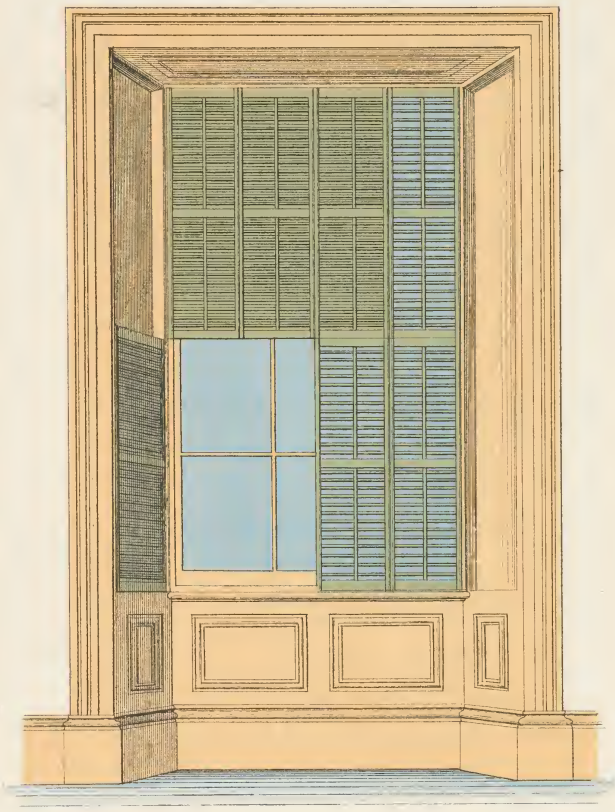
ARCHITECTURAL IRON WORKS,—NEW-YORK.

PATENT METALLIC WINDOW BLINDS

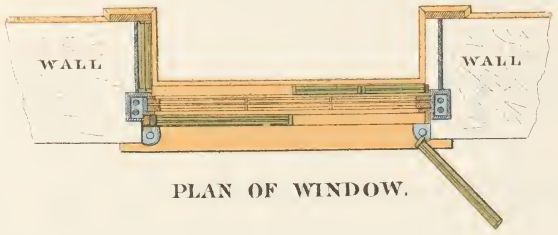
BURGLAR & FIRE-PROOF.



ELEVATION showing Blinds for OUTSIDE USE



ELEVATION showing Blinds for INSIDE USE.



PLAN OF WINDOW.

This Blind obviates all the difficulties and inconveniences of the wooden Blind, and is designed to supersede the folding iron shutter and the outside and inside wooden blind and shutter. It is fire-proof and by actual experiment is shown to resist the fire much longer than the ordinary iron shutter; and water thrown on it while hot will not curve, warp or open it so as to expose the window to the flames. This Blind does not shrink, warp or settle by exposure to solar or artificial heat or by atmospheric changes, thus freeing it from those objections to the wooden blind, which so try the patience of House-keepers. The wires are always in order and can not be pulled out, the slats remain unbroken and can be so adjusted as to let in the exact amount of light and air required. It is self fastening and fastenings are always in order. It is substantial and, unlike the wooden blind, requires little or no repairs and is capable of the highest finish and ornament. The inside blinds are specially adapted to first class dwellings, churches &c.

Many of the first Architects and Builders of this and other Cities have given these Blinds their unqualified approval. They have been adopted by various banking houses and dwellings and recently by the new Court House in Brooklyn.

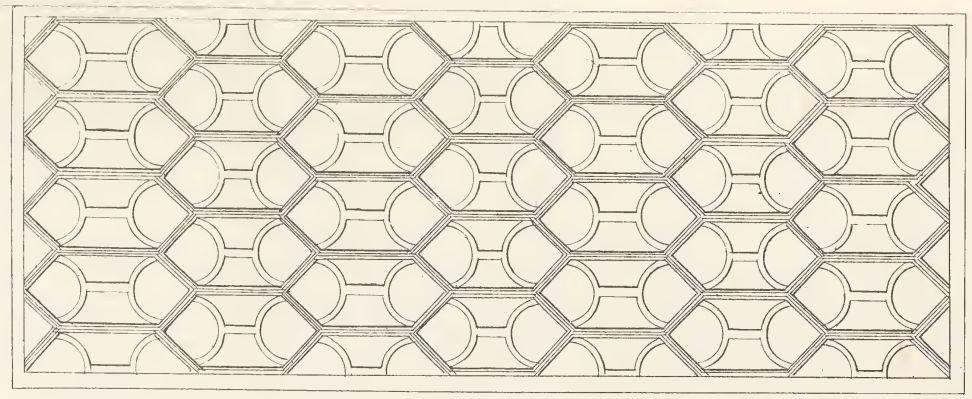
Manufactured for the American Iron Blind Company *and orders received for the same by the*

Architectural Iron Works, 42 Duane Street, New York.

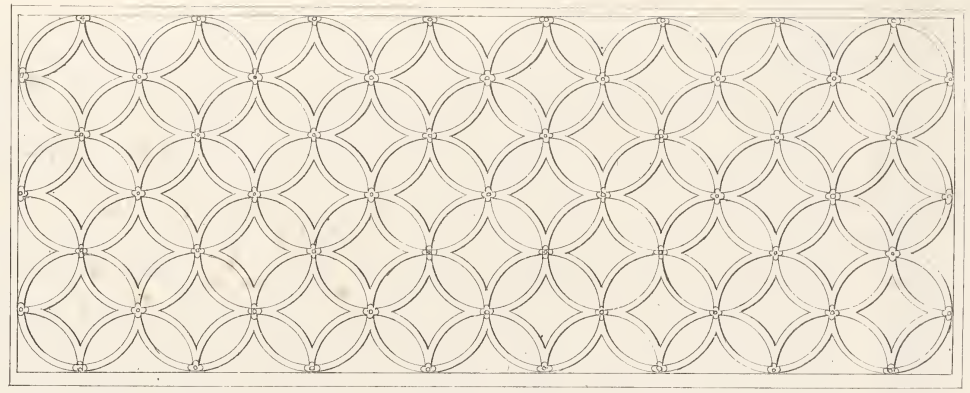
Plate LVII.

Lattice Pannels.

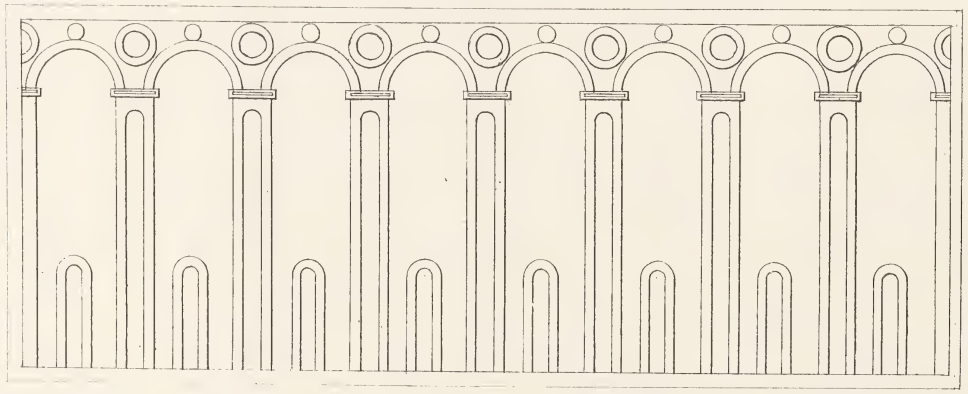
No 151



No 152



No 153



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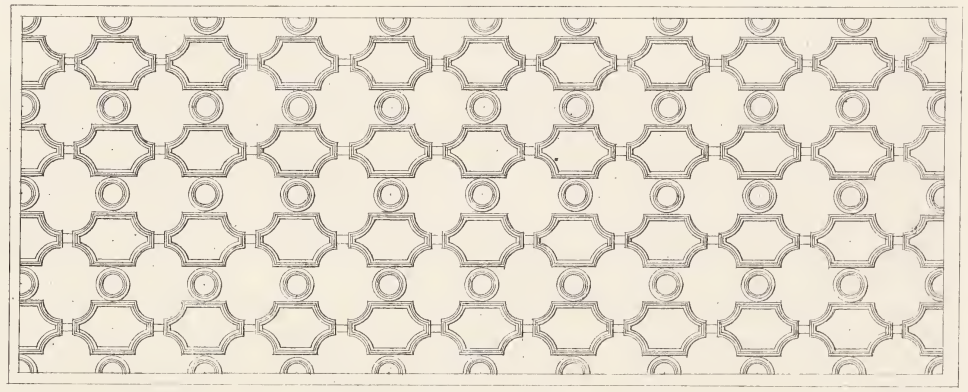

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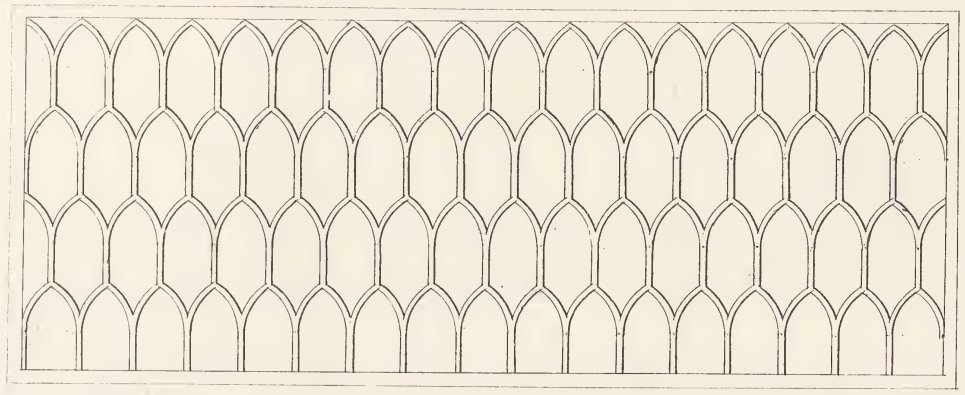
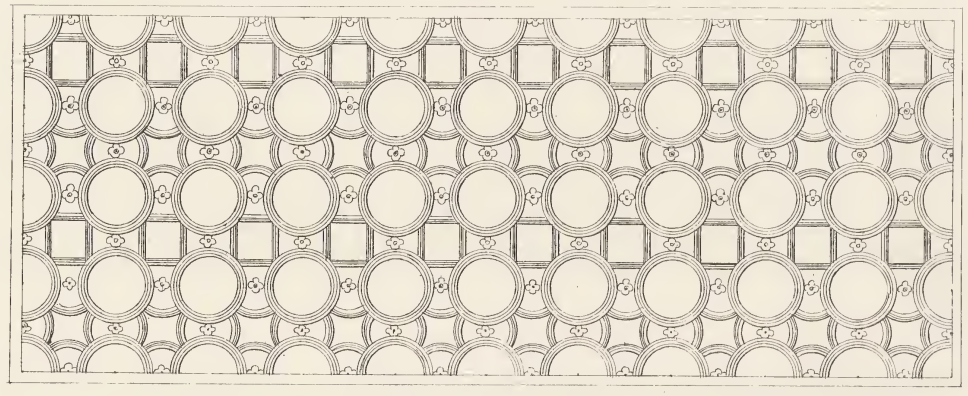


No 156



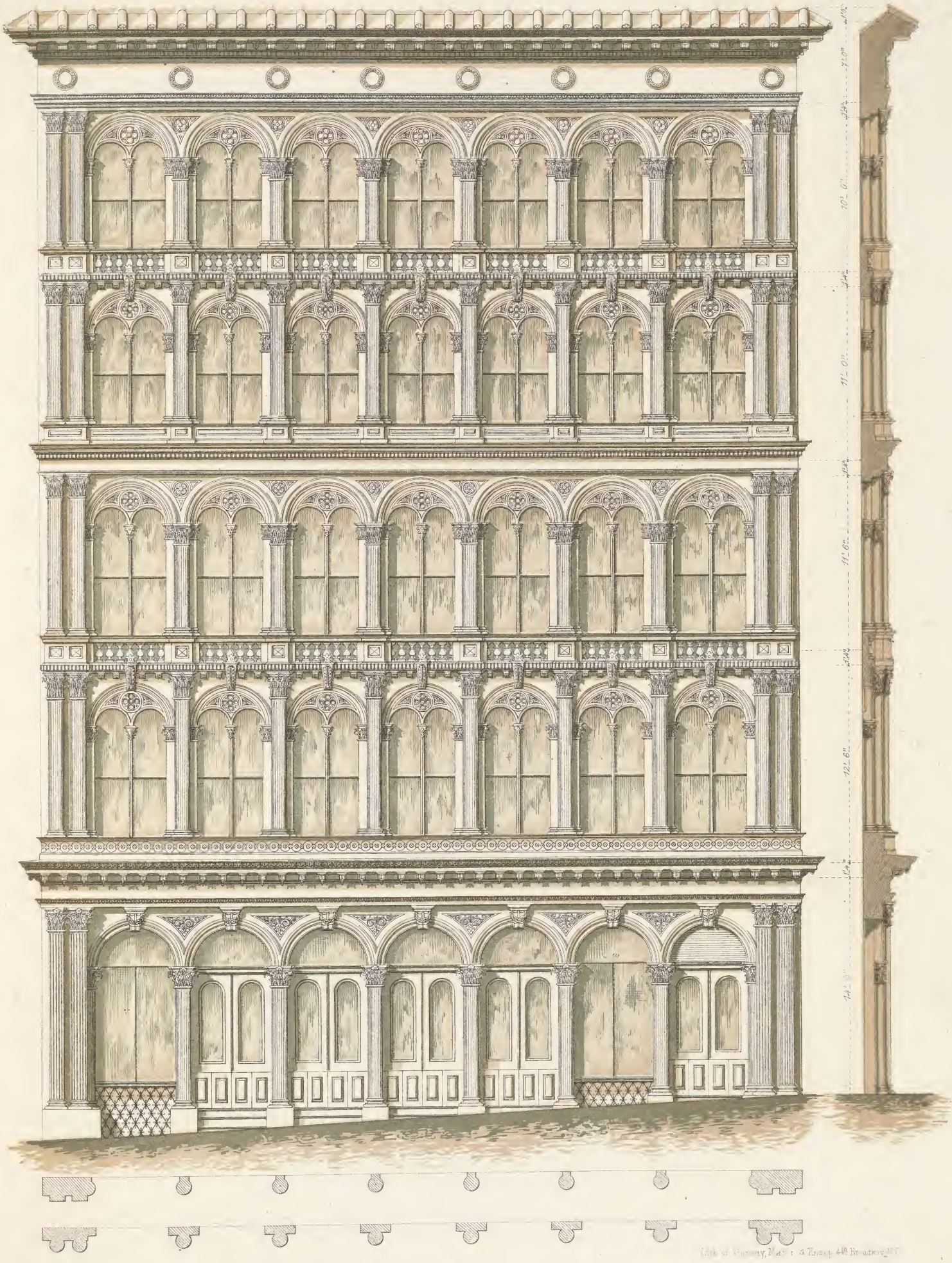
ARCHITECTURAL IRON WORKS — NEW YORK.

Lith of Sarony, Major & Knapp, 449 Broadway N.Y.

Plate LVIII.

JOHN C. GRAY ESQ, BOSTON.

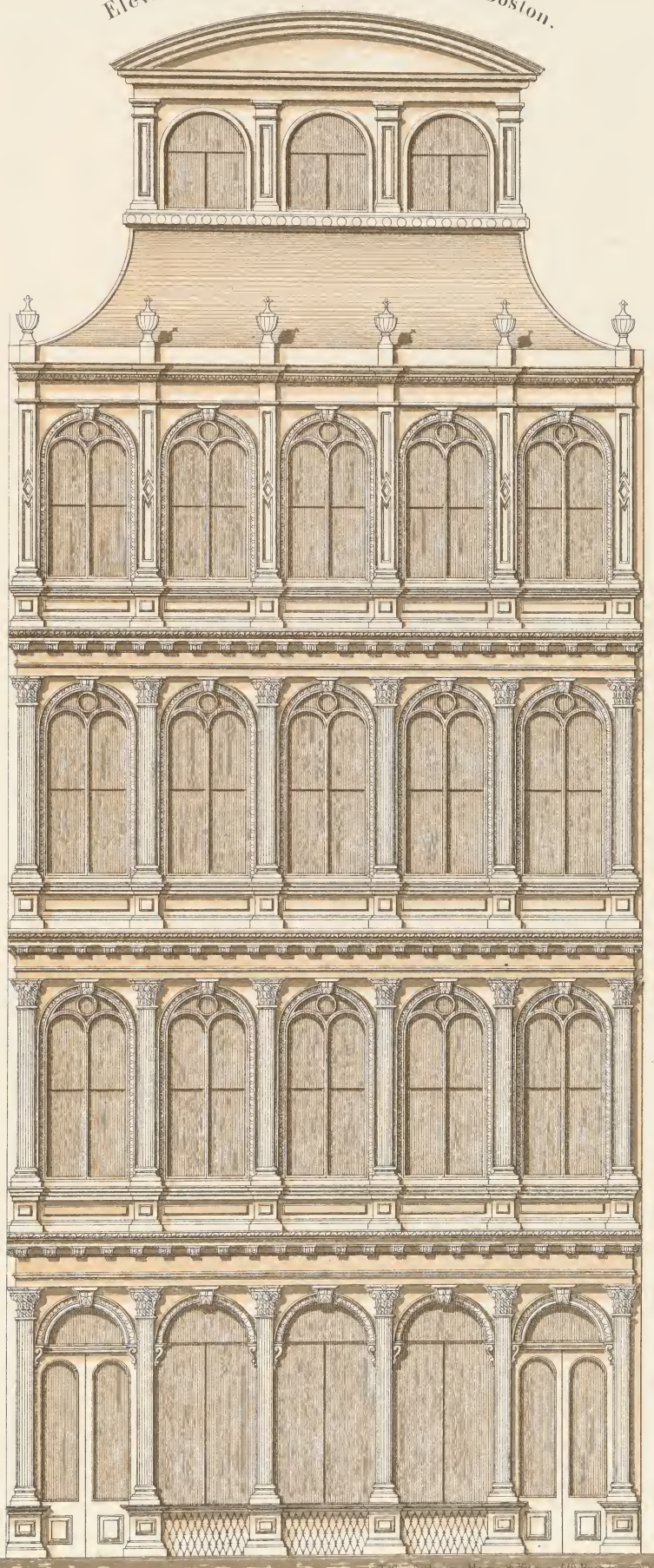
No: II.



ARCHITECTURAL IRON WORKS,— NEW-YORK.

Plate LIX.

Elevation of H.H. Hommewell's Building, Boston.
No: 12.



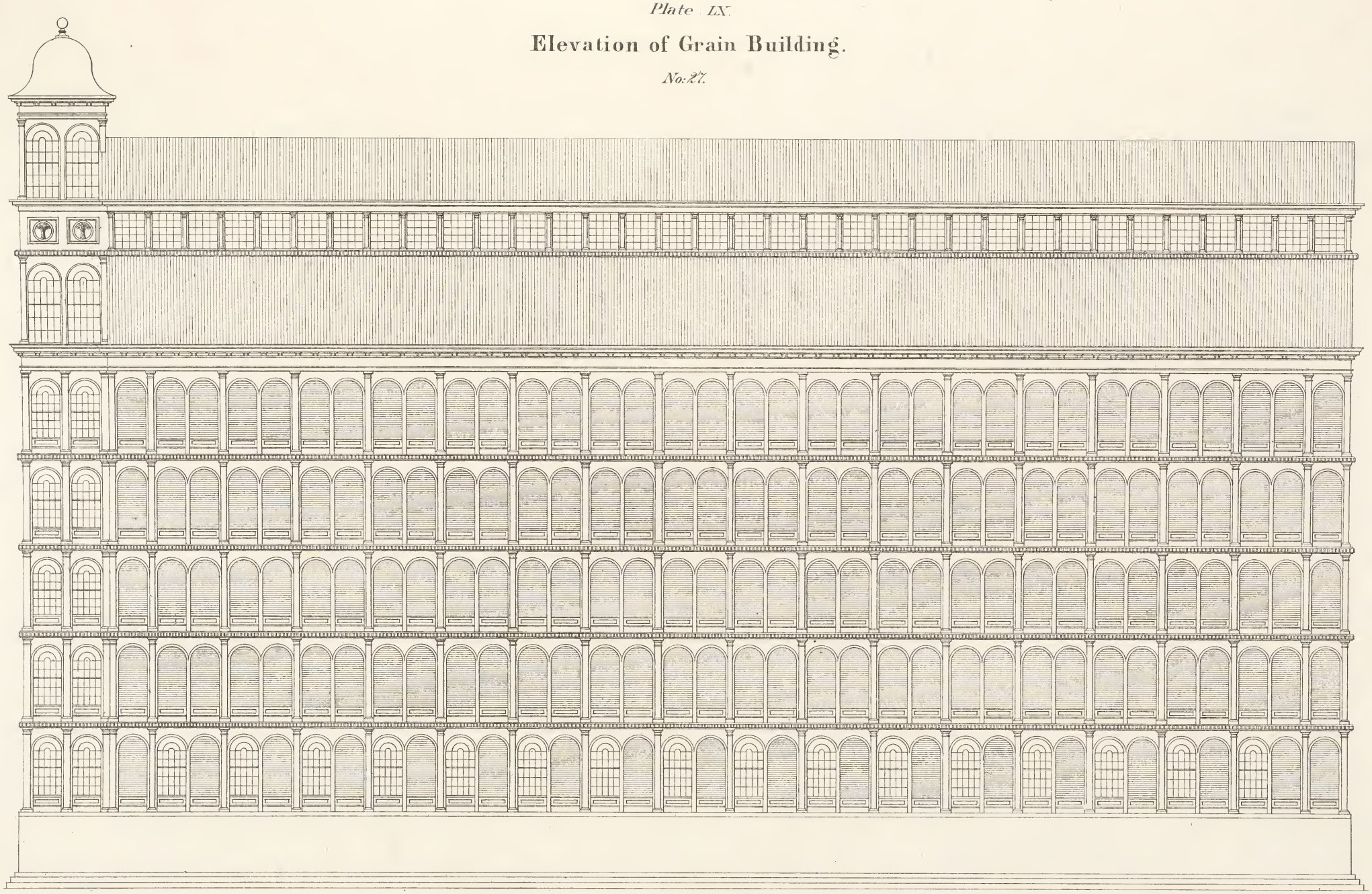
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS, — NEW-YORK.

Plate LX.

Elevation of Grain Building.

No: 27.



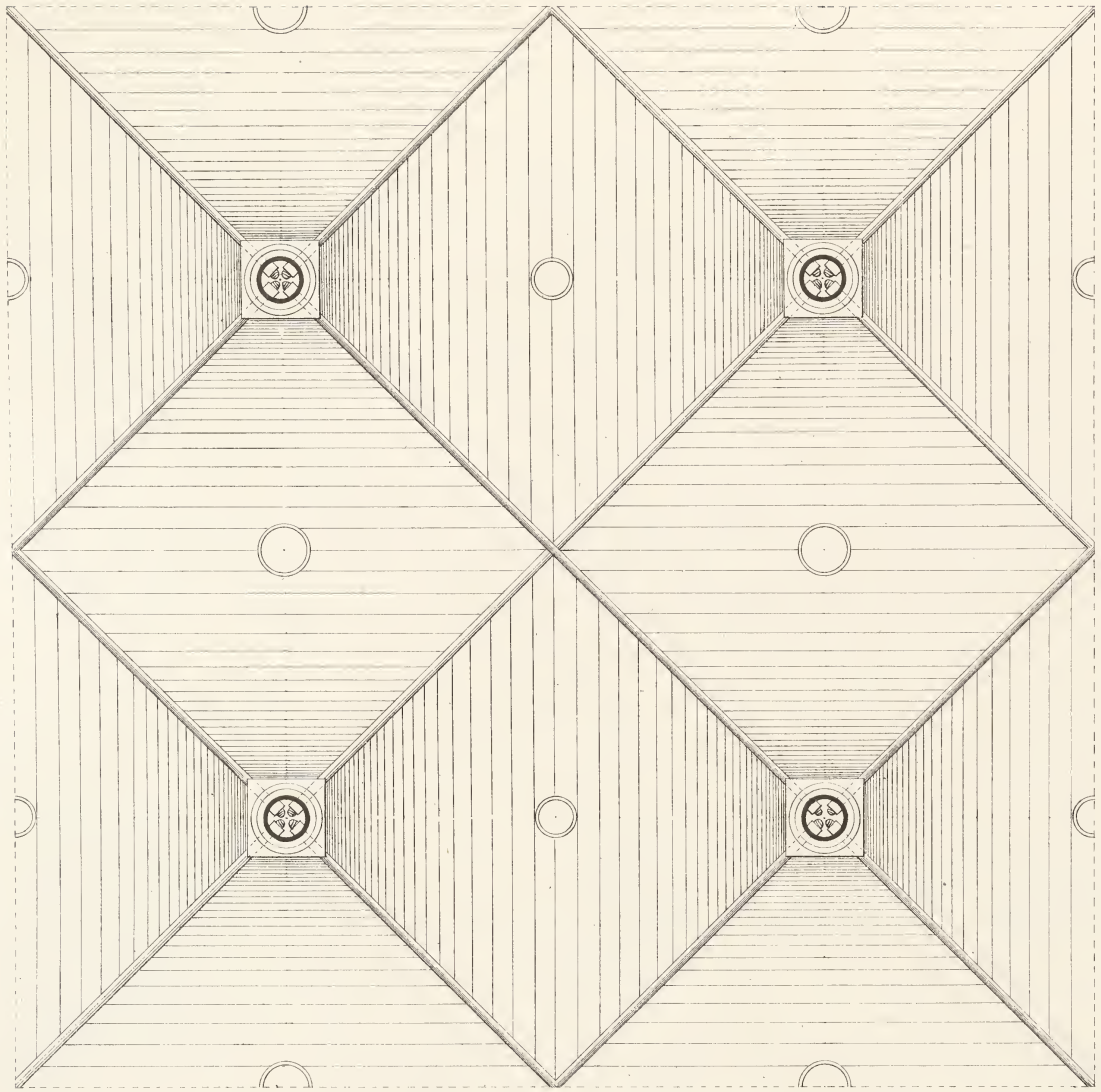
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate LXI.

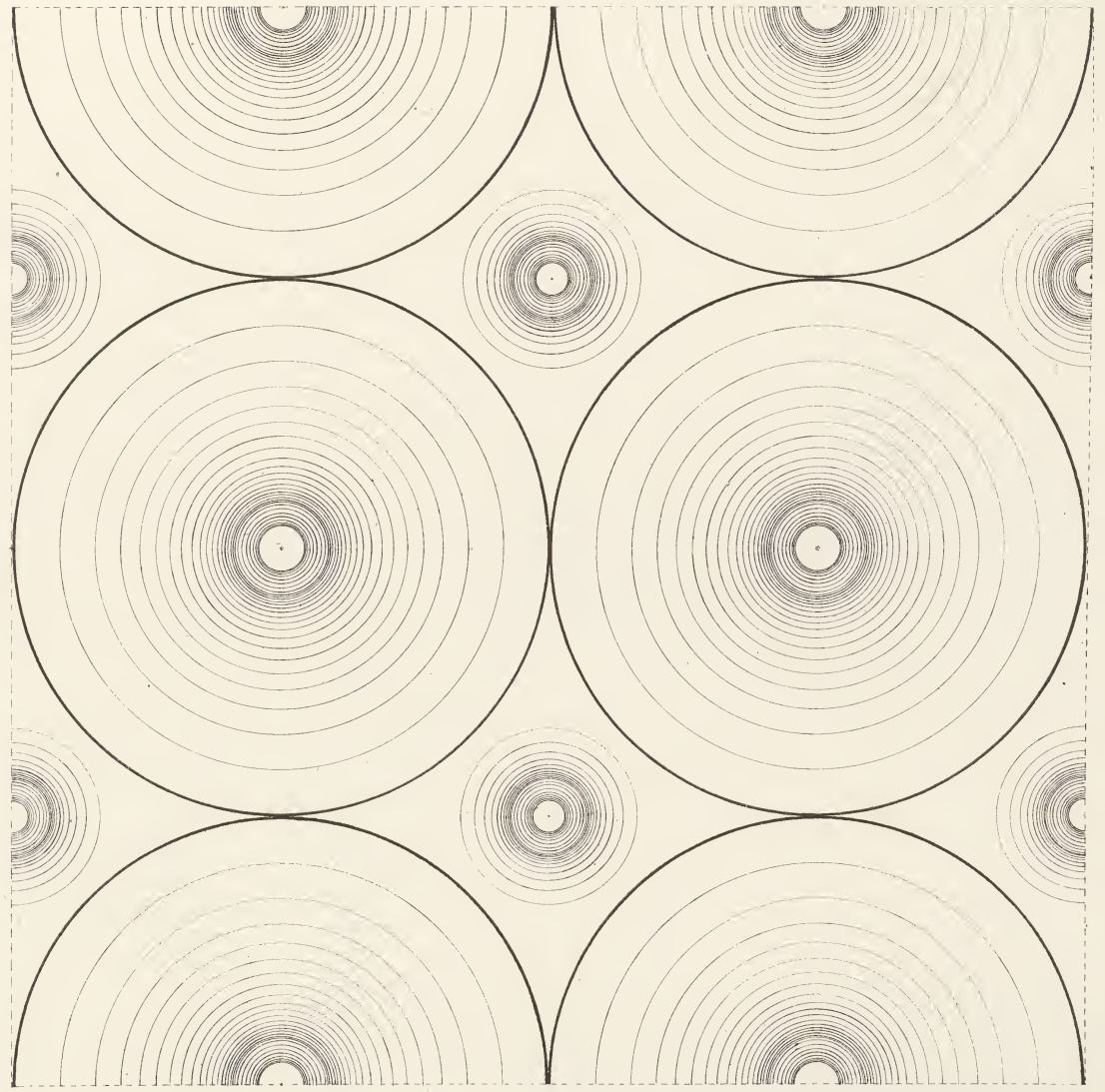
Details of Grain Building.

№ 73



Horizontal Plan of Soffit of Bin Bottoms.

№ 72.



Horizontal Plan through Bins.

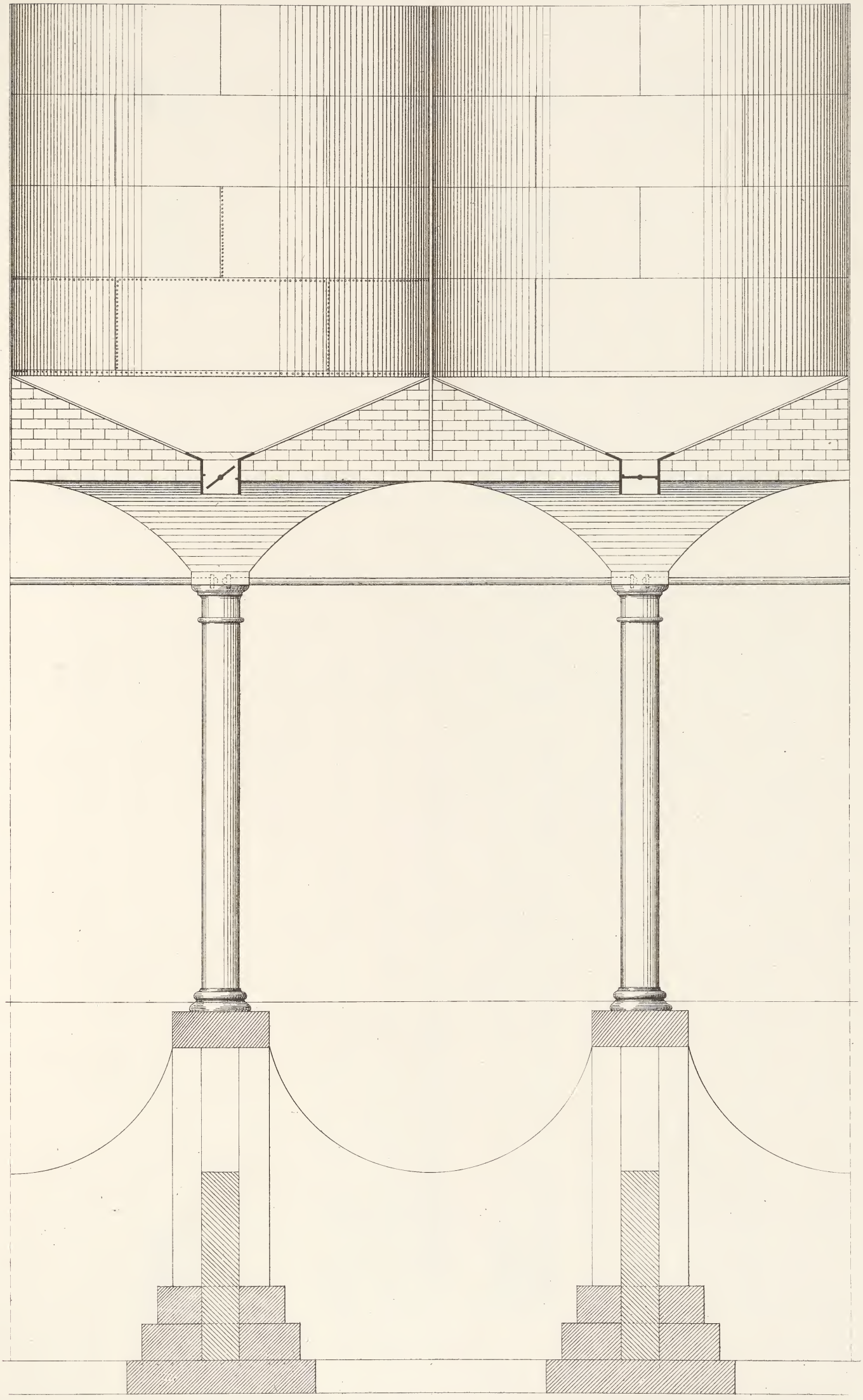
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate LXII.

Section of Grain Building through Bins.

No 11



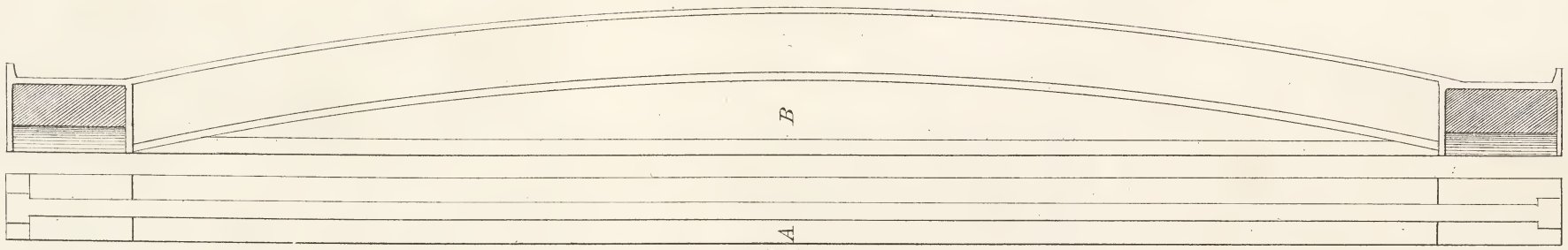
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS, — NEW-YORK.

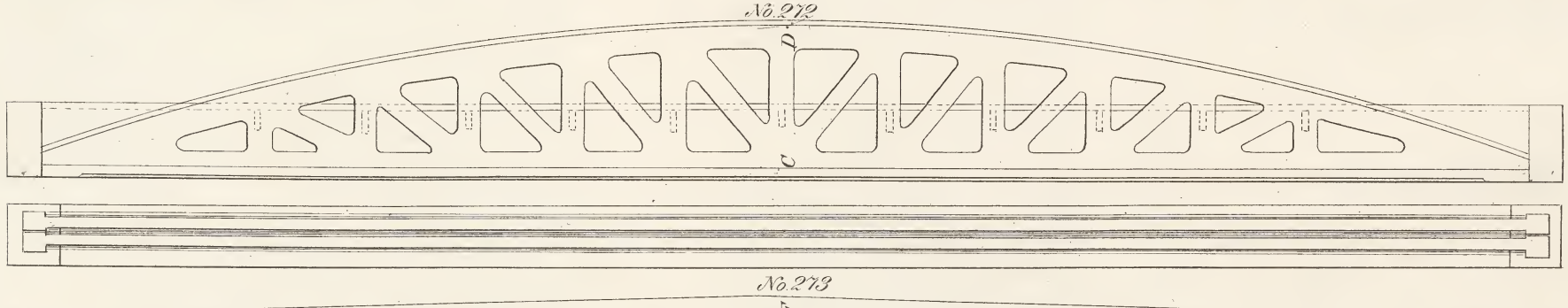
Plate LXIII.

Tension Rod Girders.

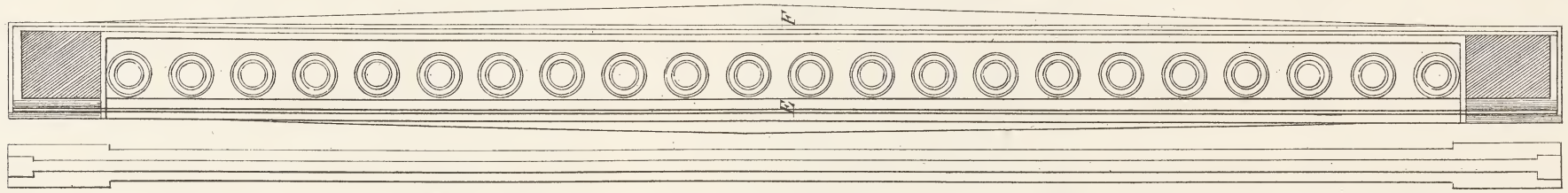
No 271



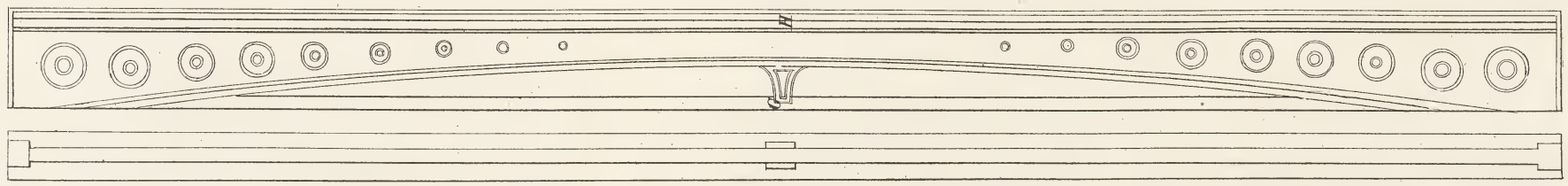
No 272

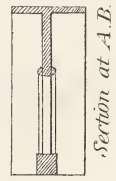


No 273

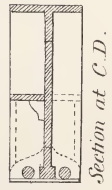


No 274

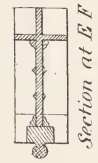




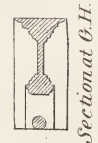
Section at A.B.



Section at C.D.



Section at E F



Section at G.H.

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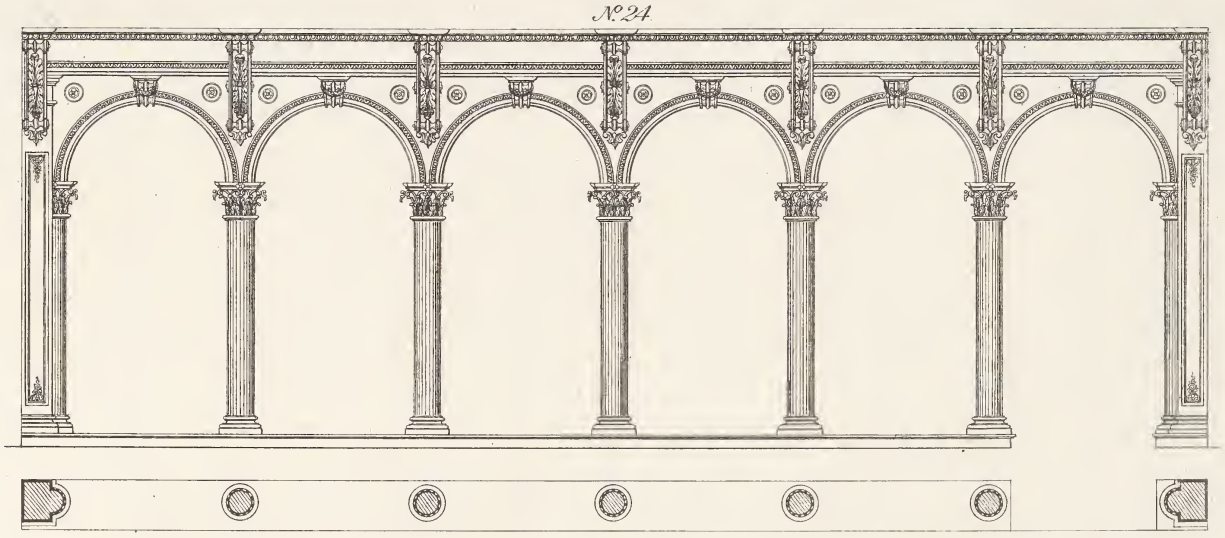
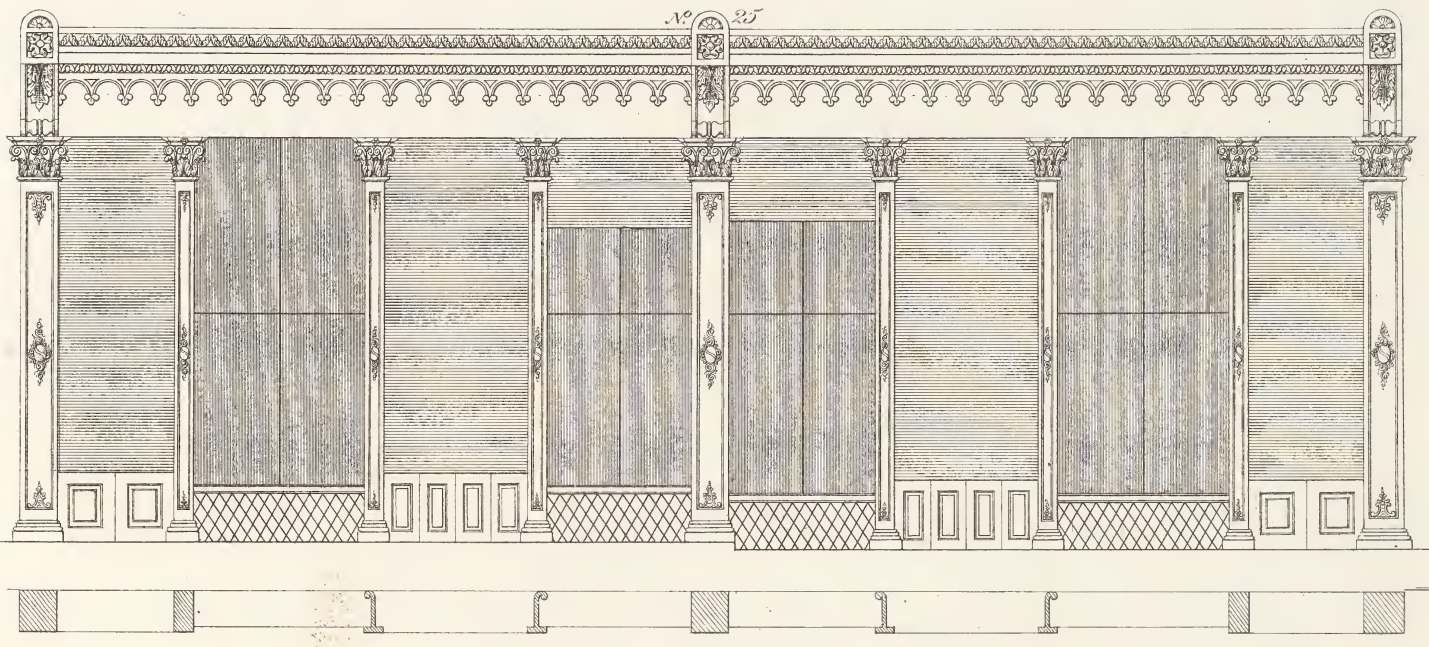
Lith. of Sarony, Major & Knapp, 449 Broadway N.Y.

Plate LXIV.

№ 24



№ 25



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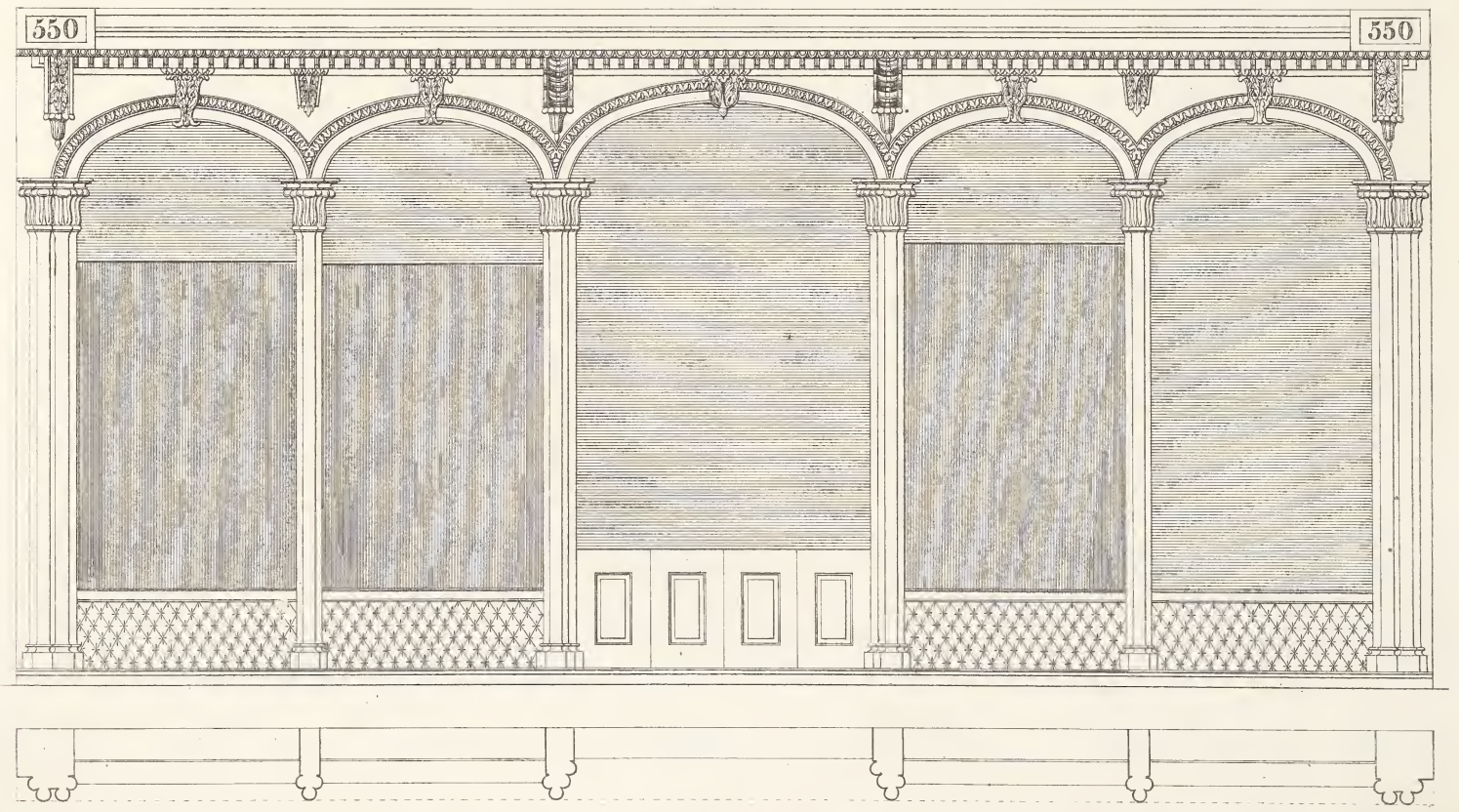
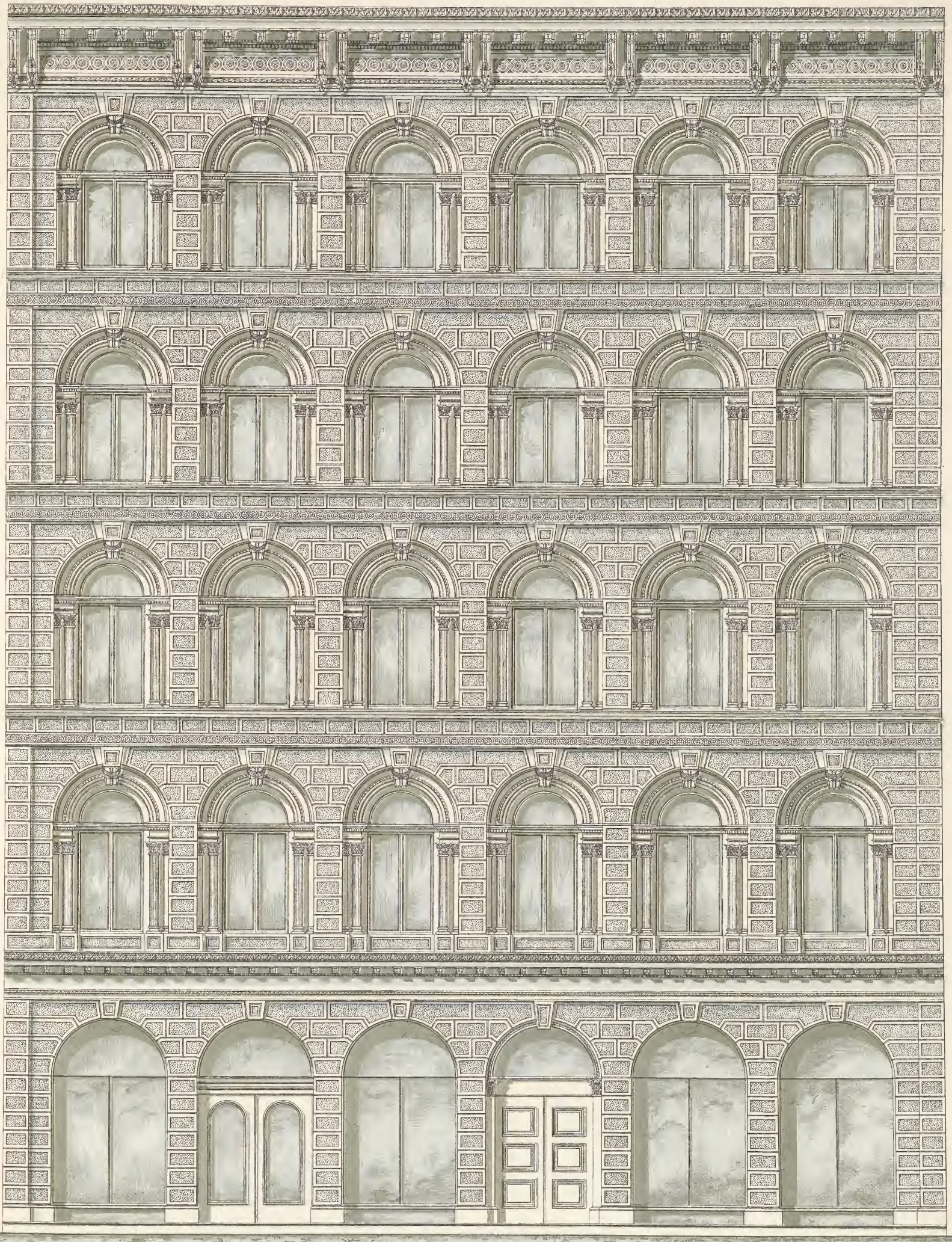


Lith of Sarony, Major & Knapp, 449 Broadway, N.Y.

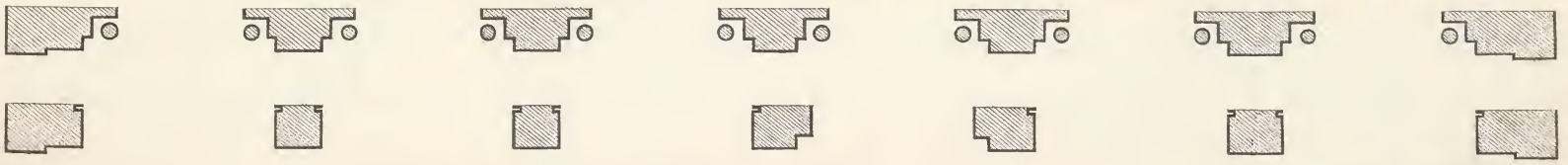
ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate LXV.

No.23.



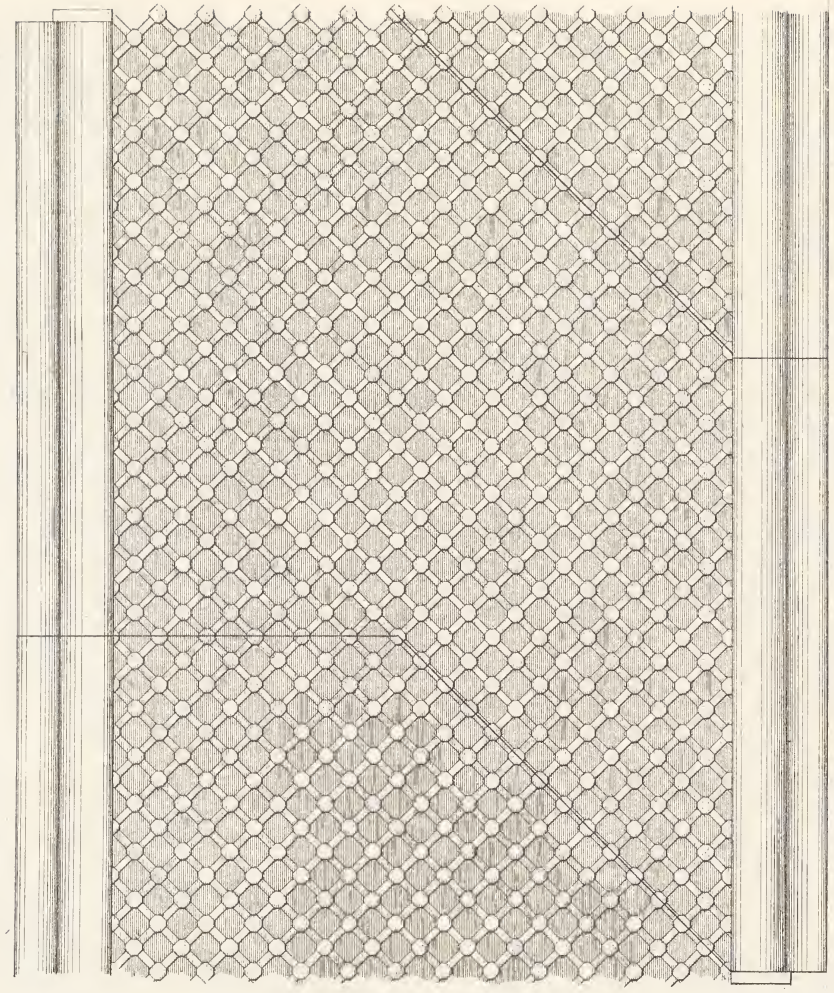
ARCHITECTURAL IRON WORKS,_NEW-YORK.



Lith of Sarony, Major & Knapp, 449 Broadway, N.Y.

City Railroad Track.

½2 of full size. No:41.



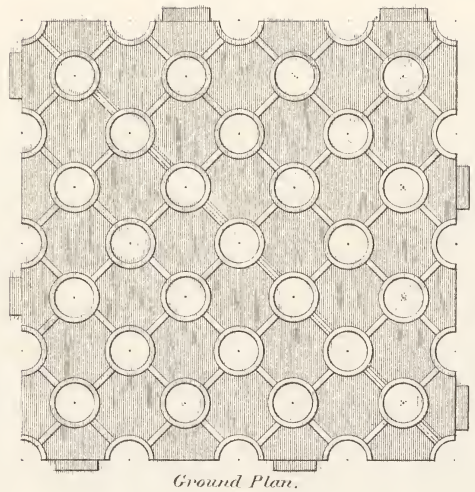
Ground Plan.

Section.

City Pavement.

⅛ of full size.

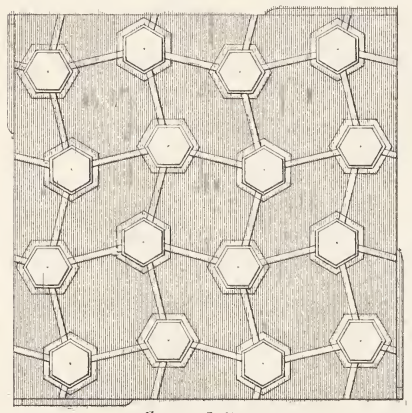
No:42.



Ground Plan.

Section.

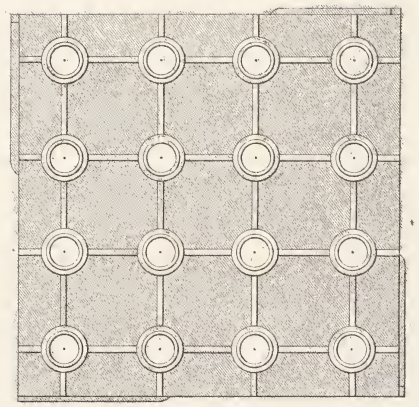
No:43.



Ground Plan.

Section.

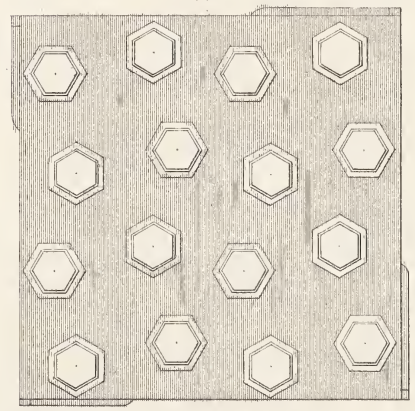
No:44.



Ground Plan.

Section.

No:45.



Ground Plan.

Section.

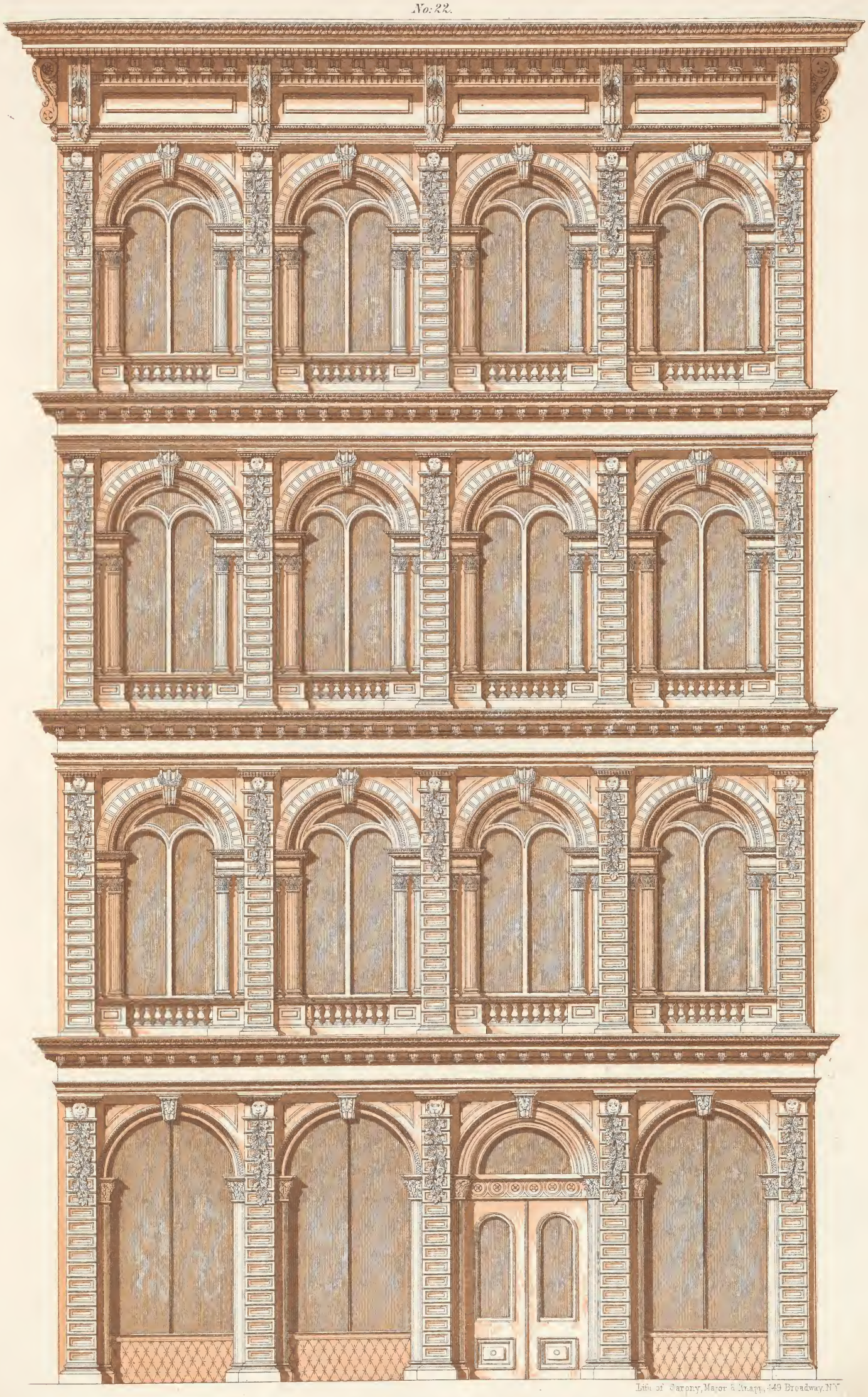
Lith of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate LXVII.

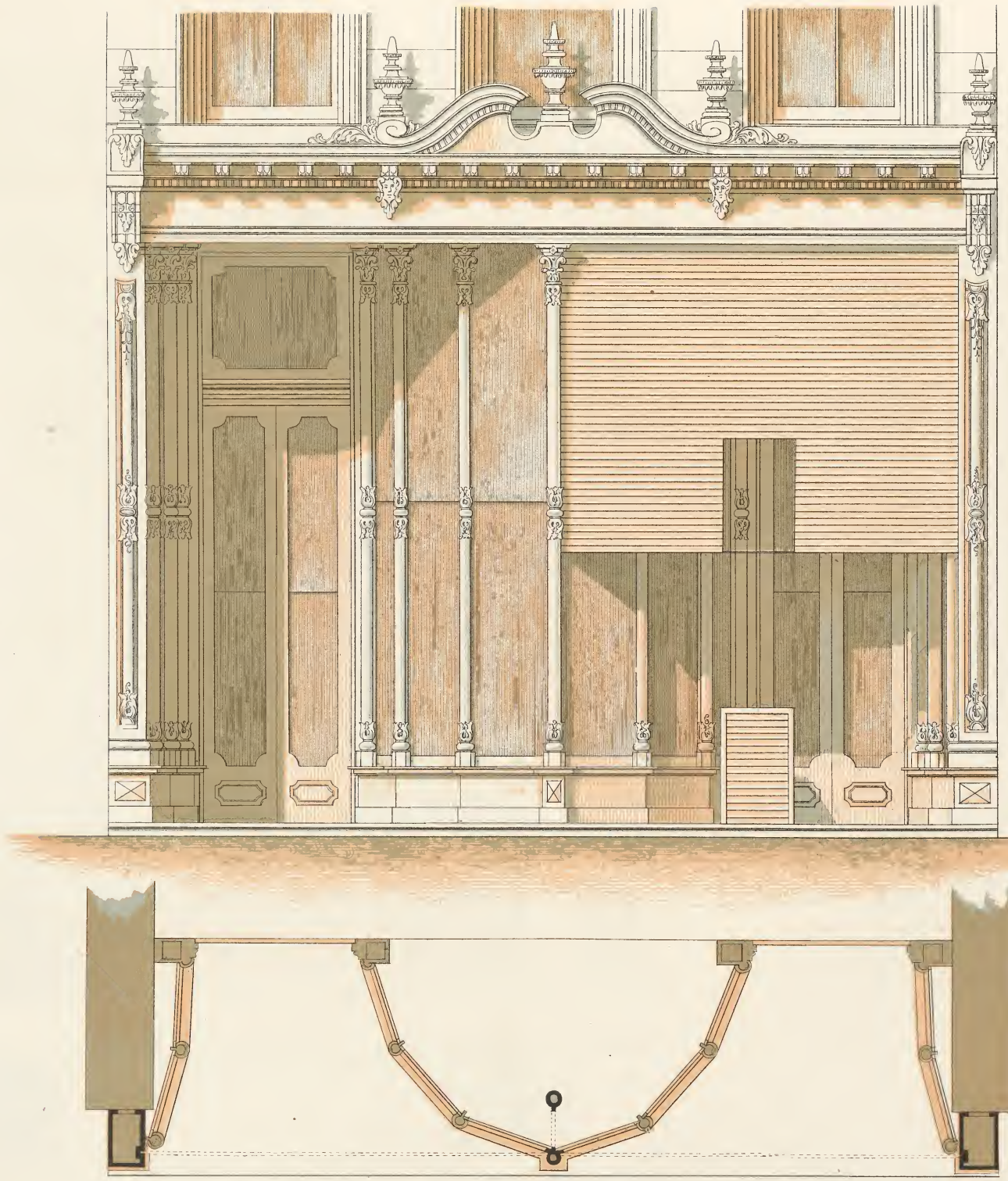
Elevation for Banking House & Office.

No: 22.



Lith. of Sarony, Major & Knapp, 349 Broadway, N.Y.

ARCHITECTURAL IRON WORKS NEW YORK



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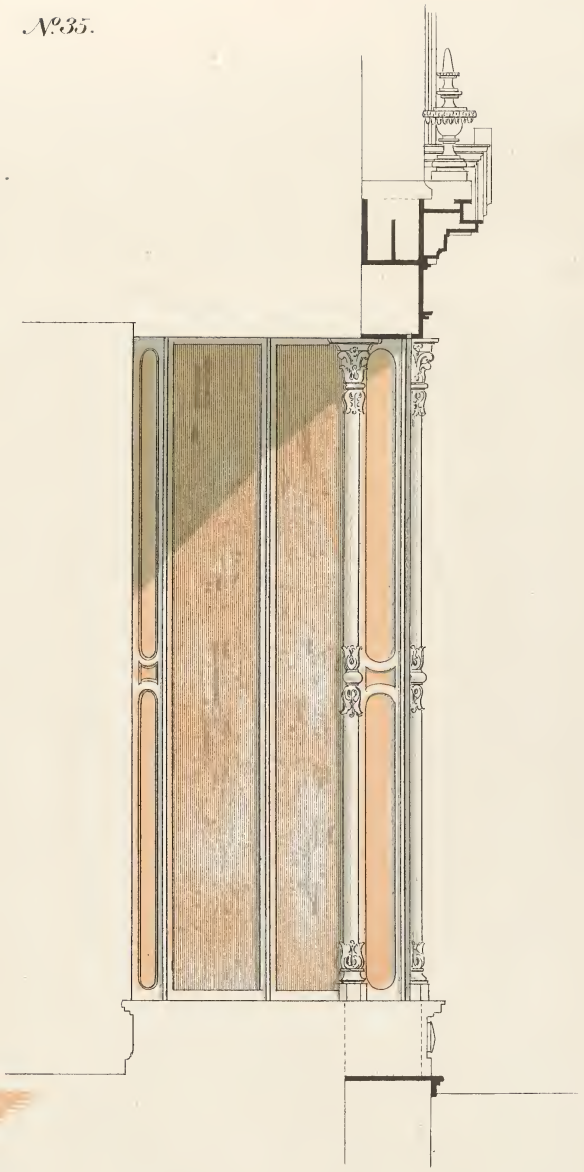
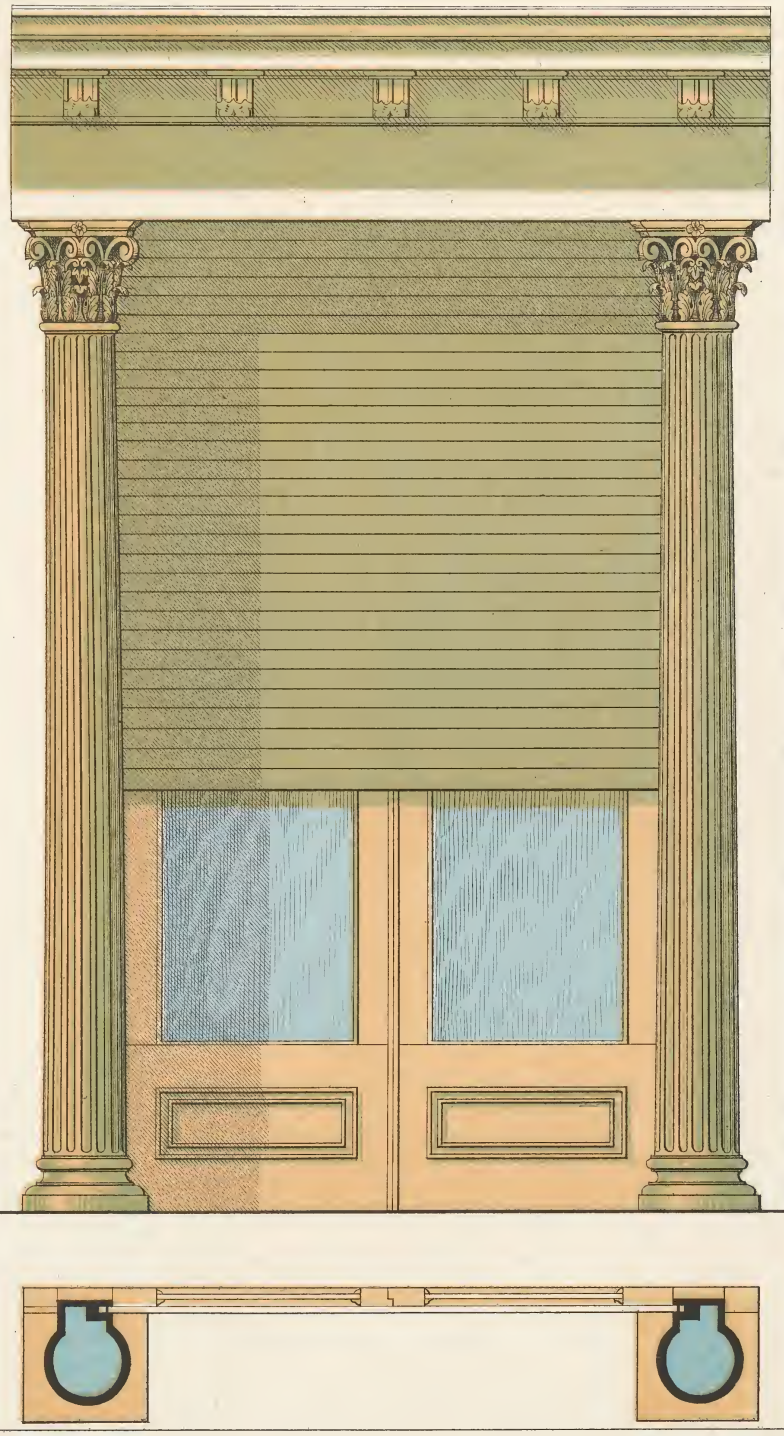


Lith of Sarony Major & Knapp 449 Broadway N.Y.

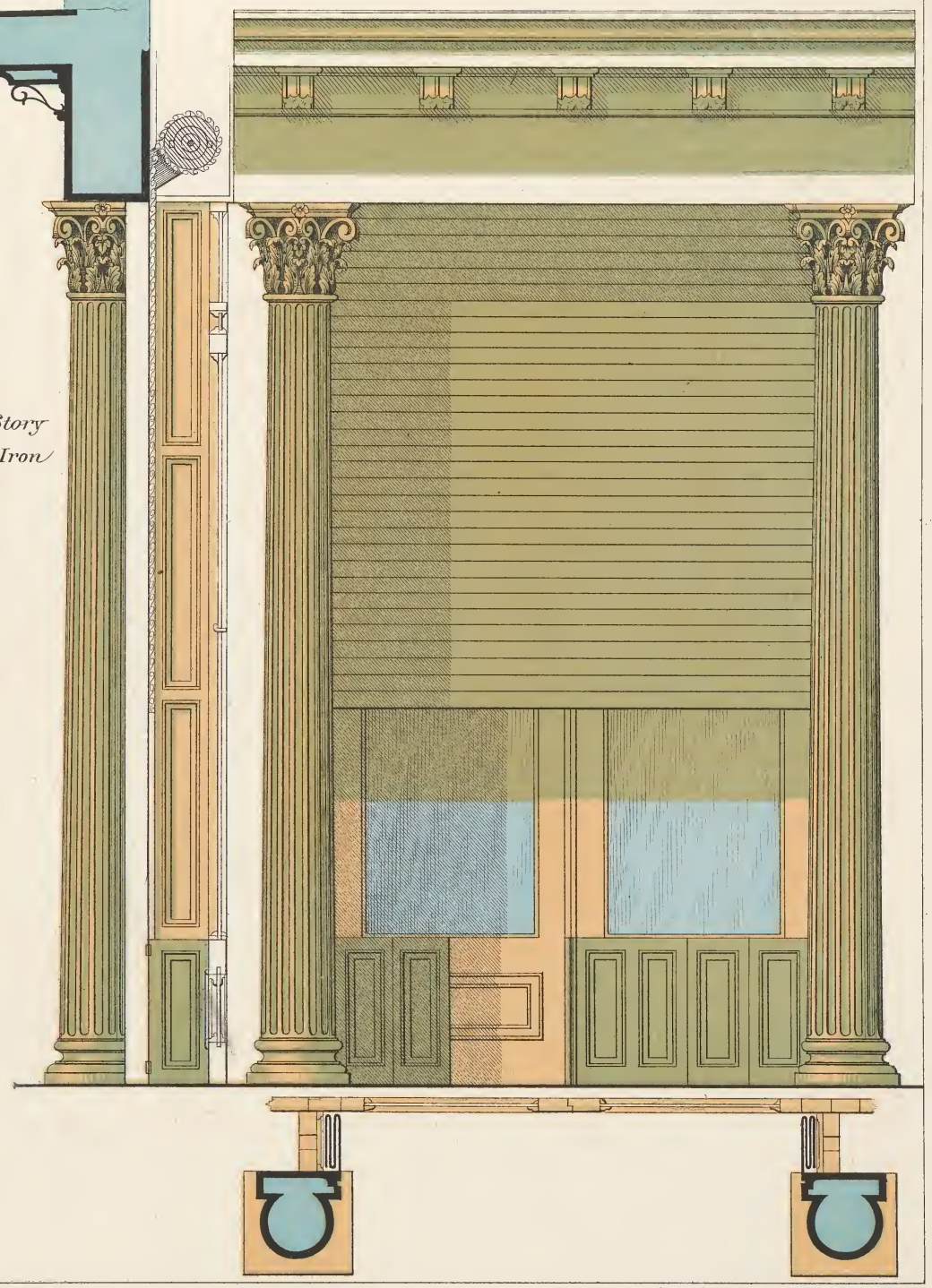
ARCHITECTURAL IRON WORKS _ NEW YORK.

No: 149.



Shewing finish 1st Story Fronts with Rolling Iron Shutters &c.

No: 150.



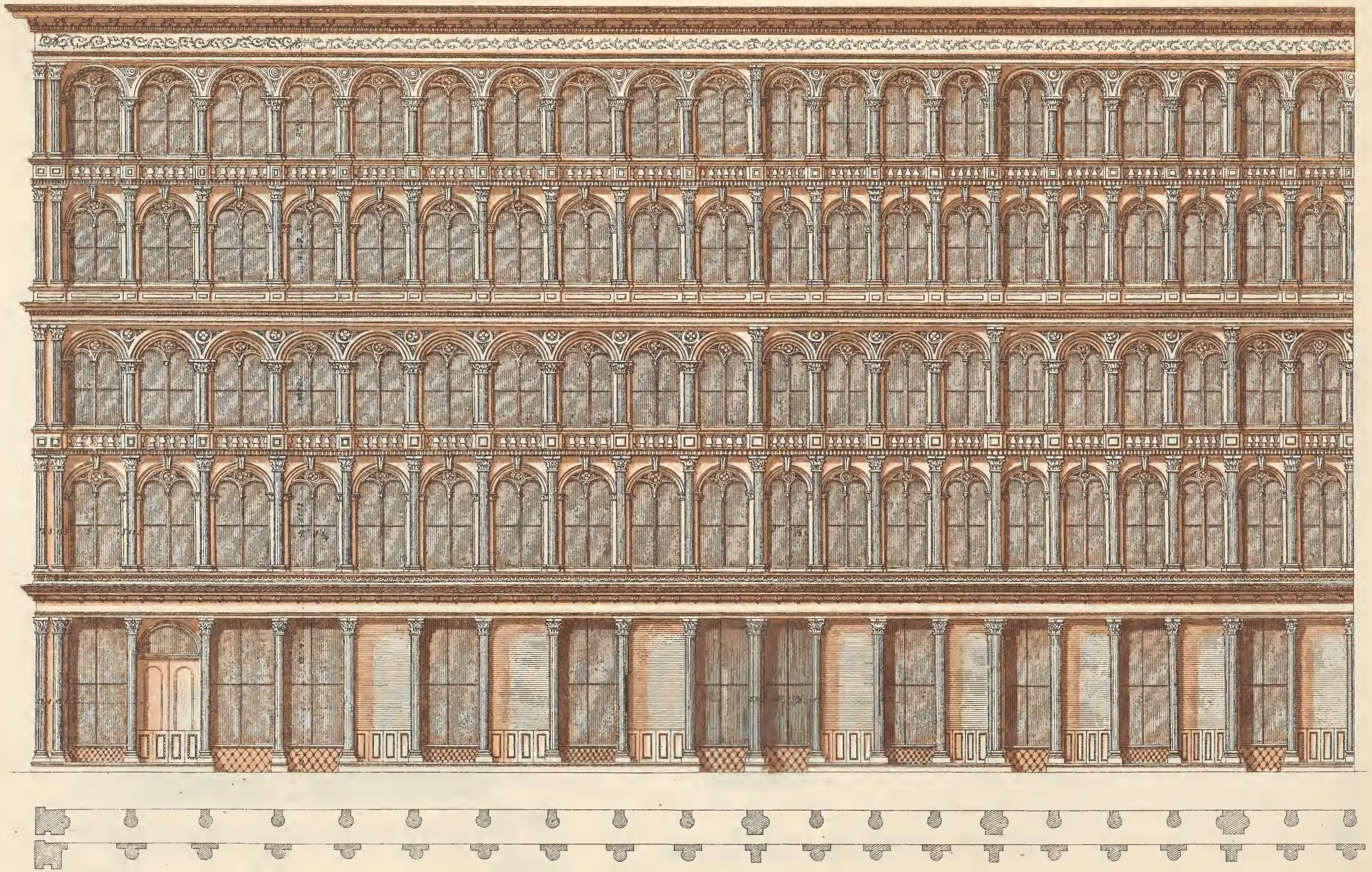
Sarony, Major & Knapp, Lith. 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS, NEW YORK

Plate LXX

Front Elevation for Fred. Tuttle and others Chicago Ills.

No: 28.



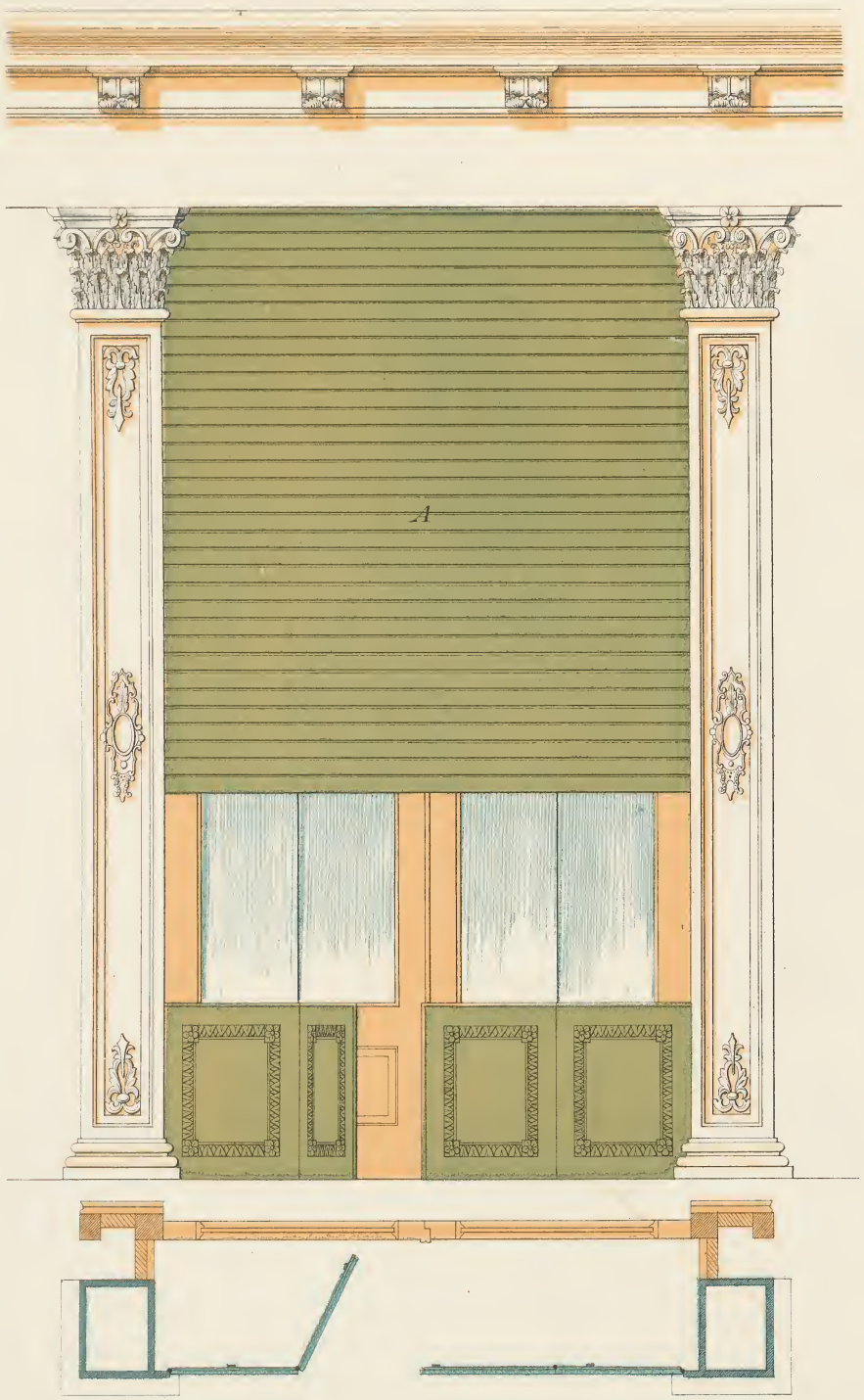
Scale one inch to twelve feet

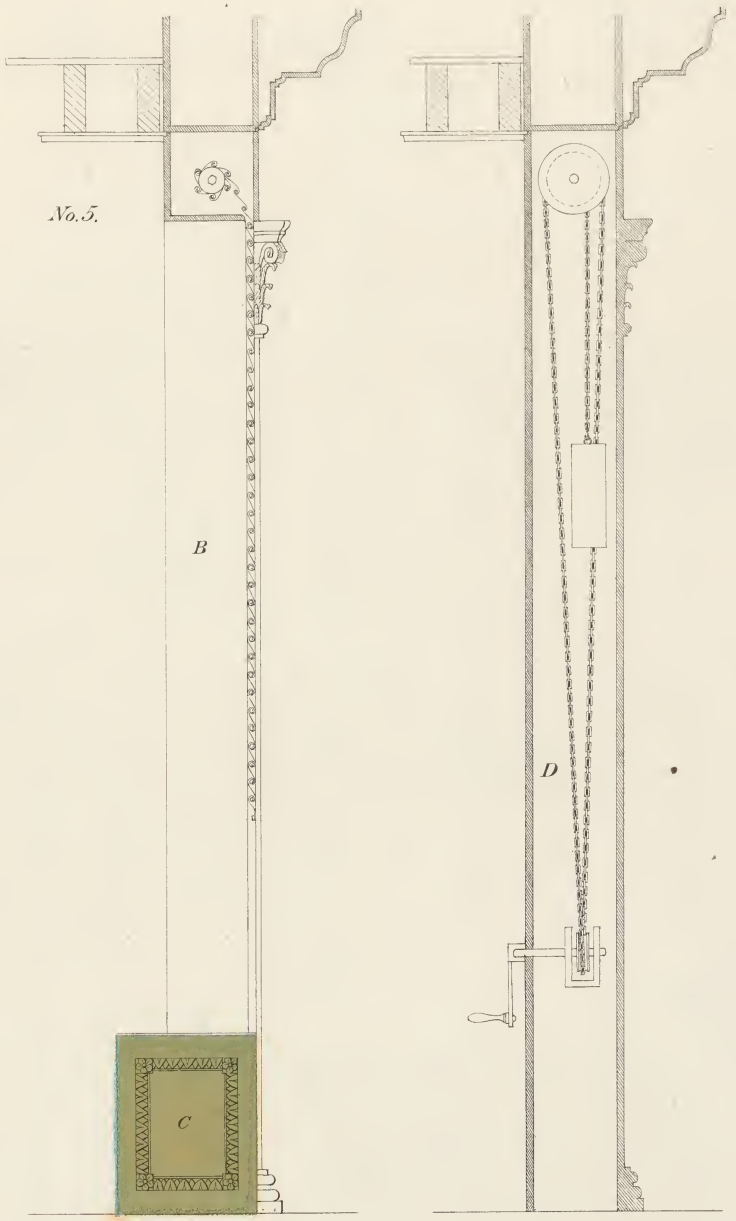
Lith of Sarony Major & Knapp 449 Broadway

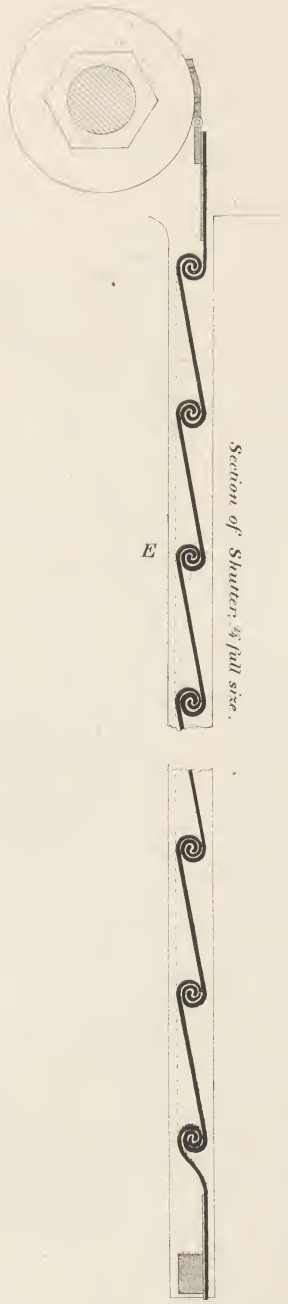
ARCHITECTURAL IRON WORKS NEW YORK

Plate LXXI.

Details: Rolling Iron Shutters.







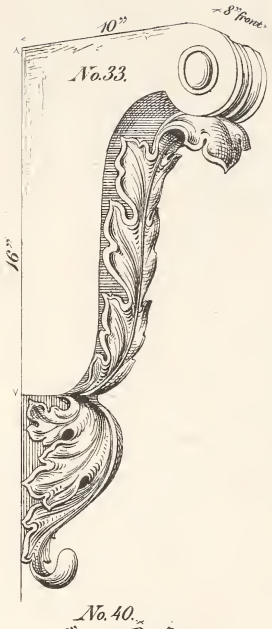
Section of Shutter, ½ full size.

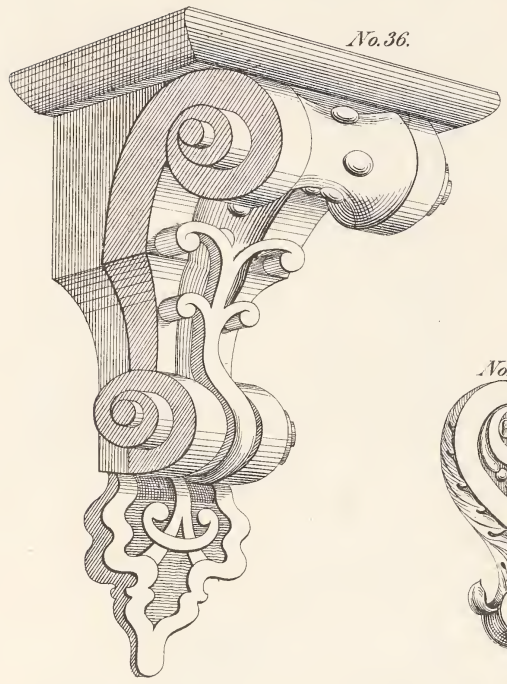
ARCHITECTURAL IRON WORKS,— NEW-YORK.

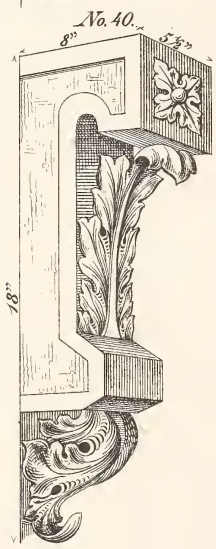
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

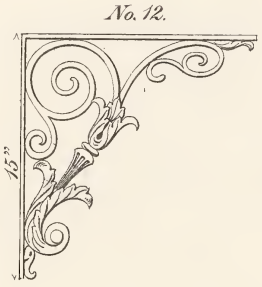
Plate LXXII.

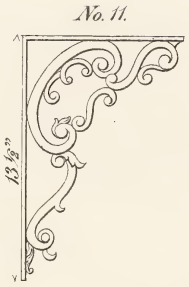
Consoles Brackets & Rosett's.

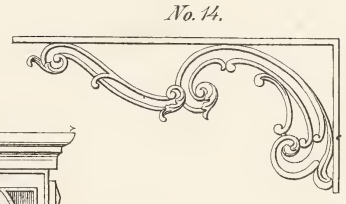


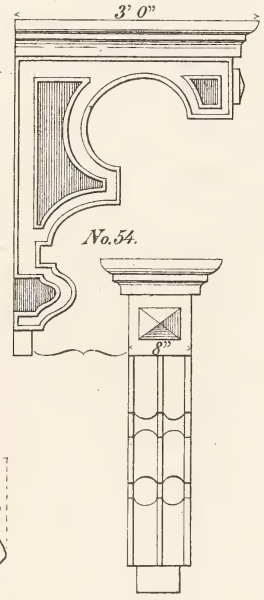


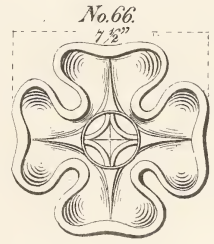


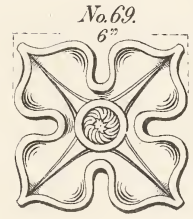












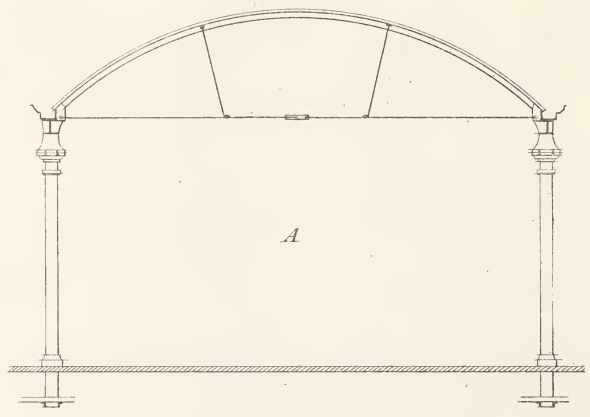
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

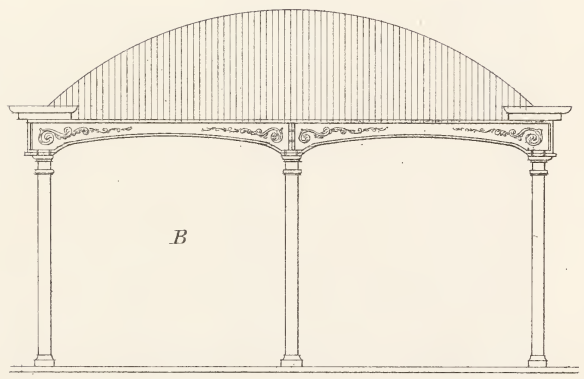
ARCHITECTURAL IRON WORKS,—NEW-YORK.

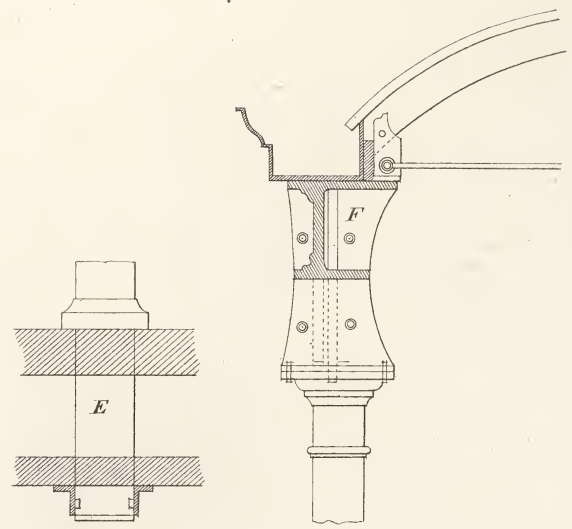
Plate LXXIII

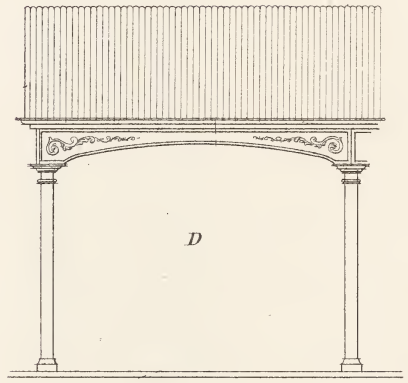
Sugar Shed for Havana, Cuba.

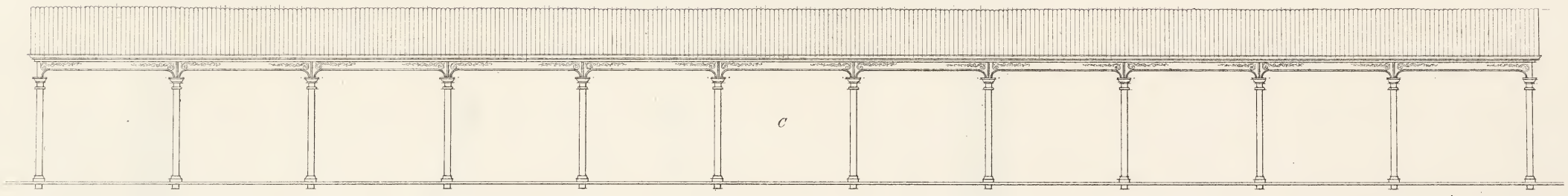
No: 19.







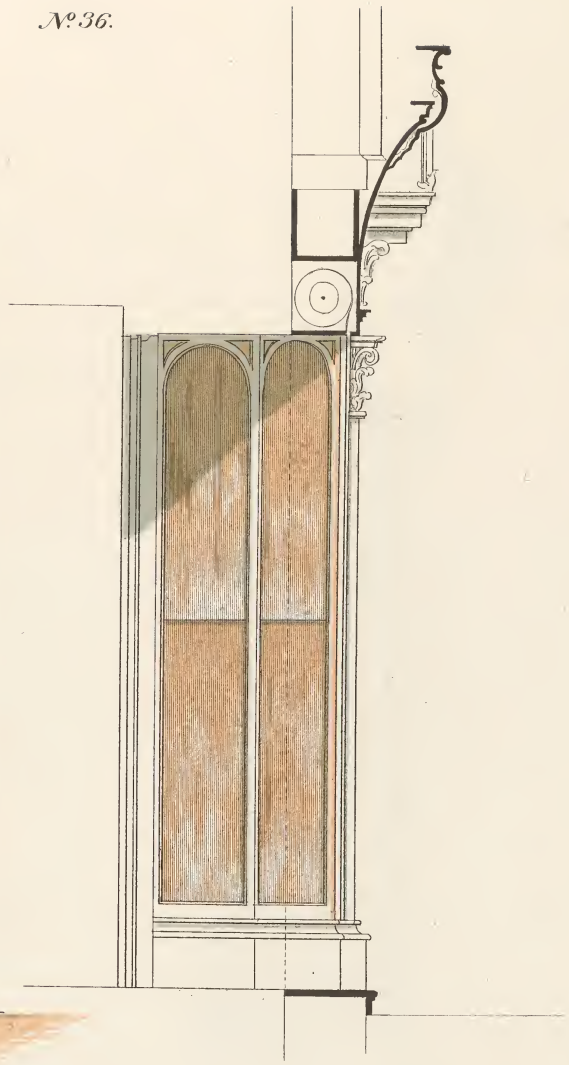




Lith of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS, — NEW-YORK.

№ 36.

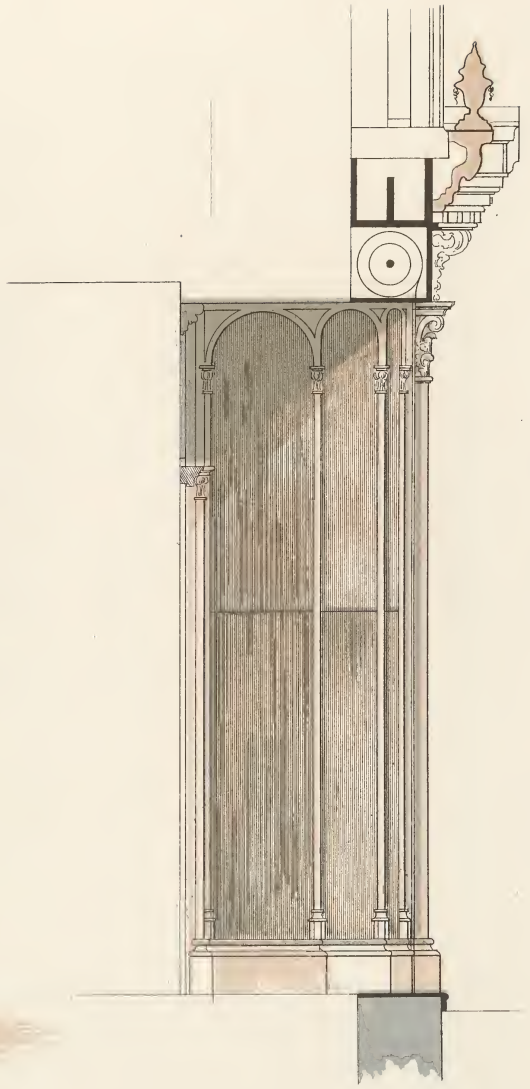


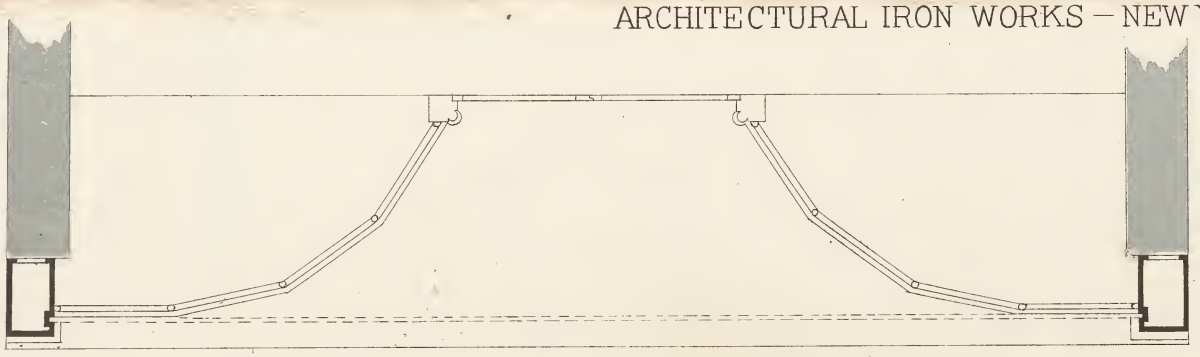
Lith of Sarony Major & Knapp 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS — NEW-YORK.

Plate LXXV

No. 38



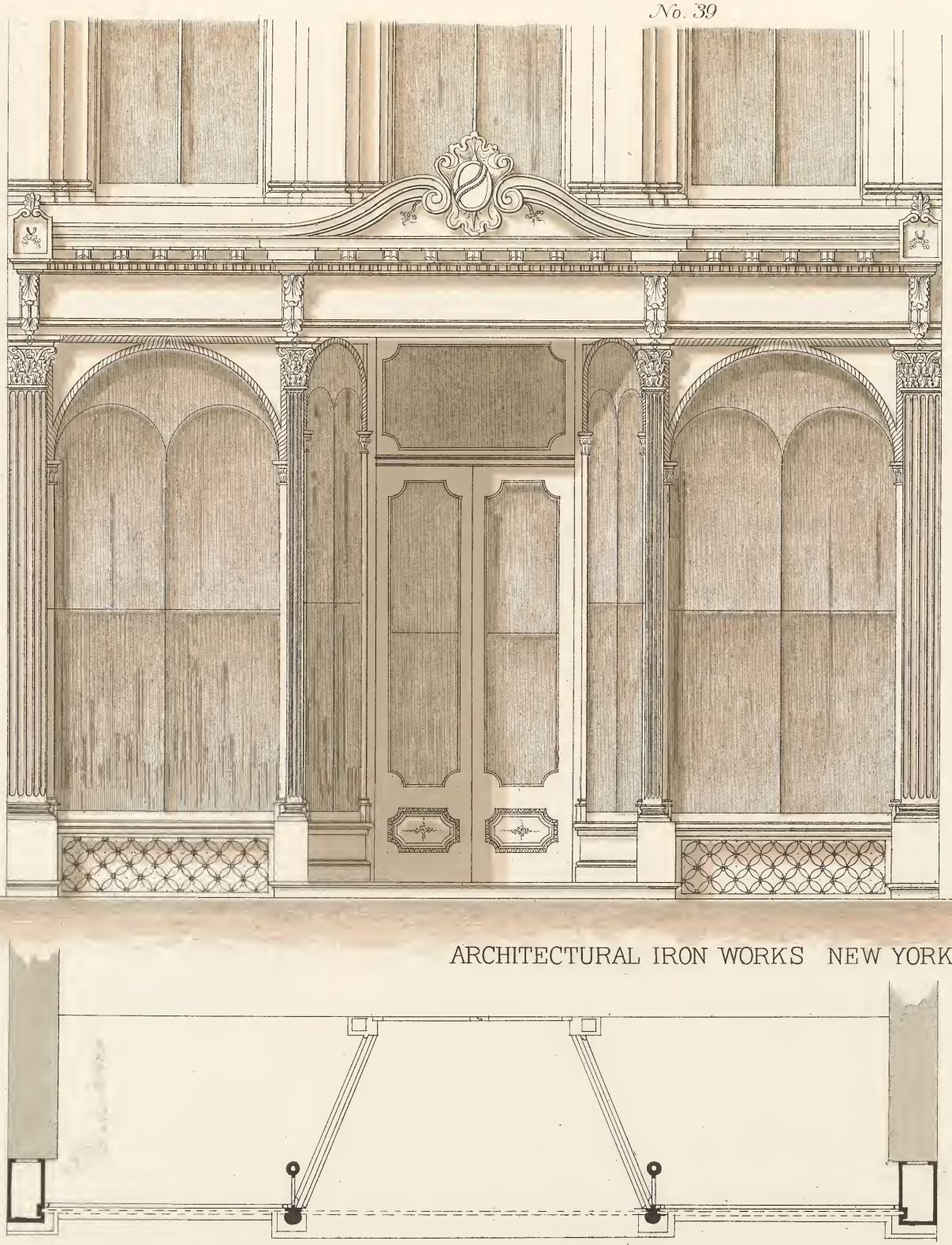


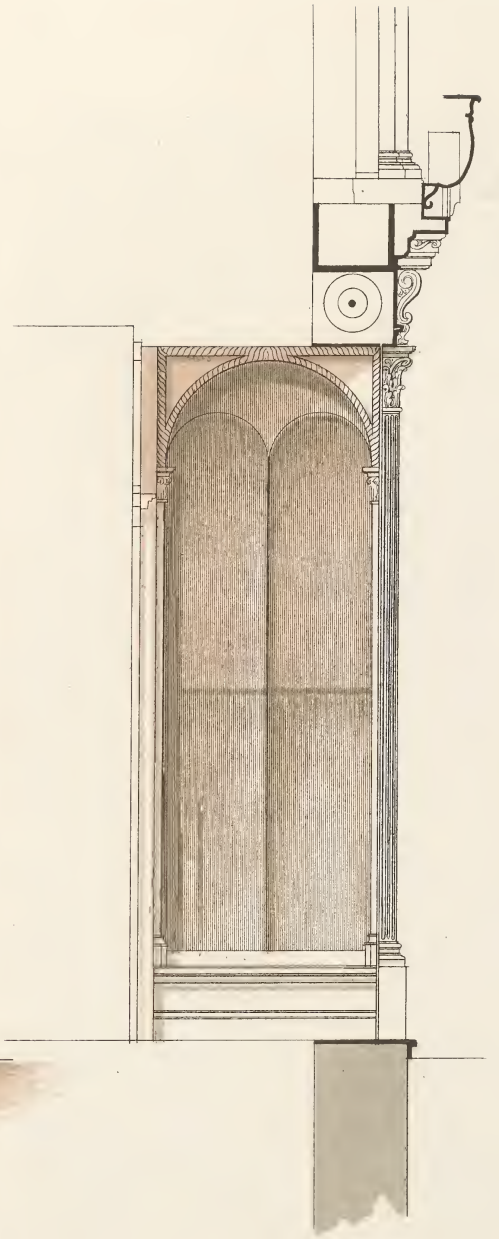
ARCHITECTURAL IRON WORKS — NEW YORK.

Sarony, Major & Knapp. 449 Broadway. N.Y.

Plate LXXVI

No. 39

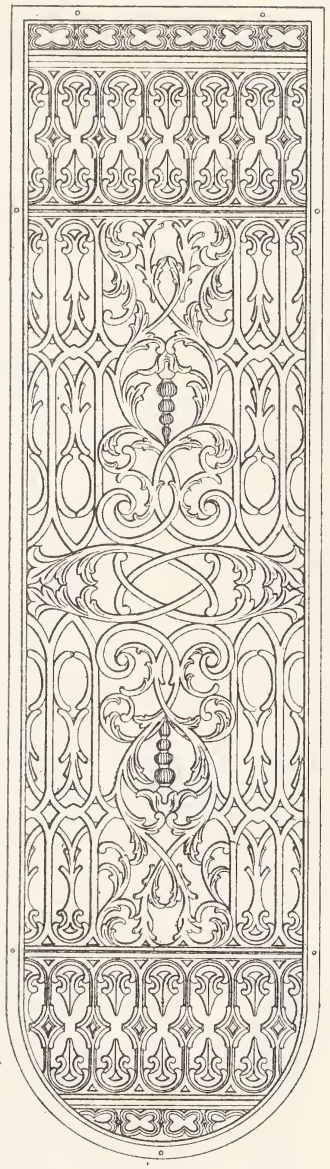




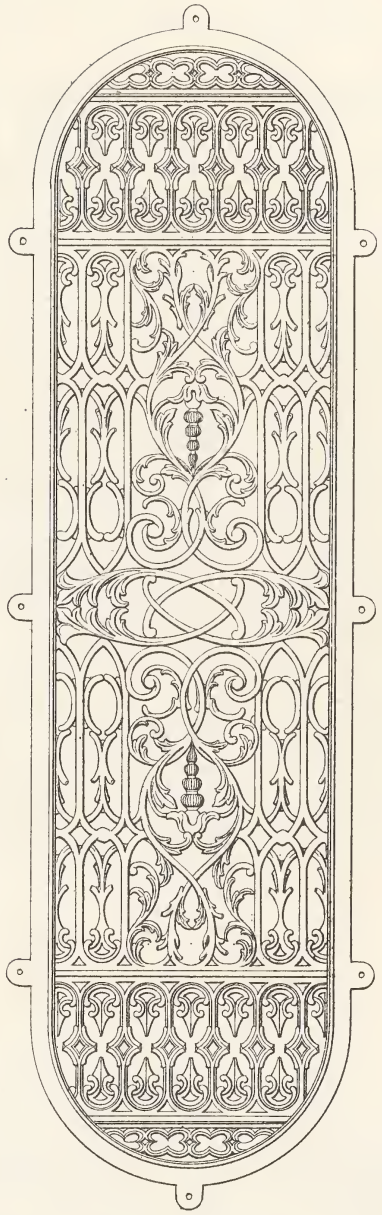
ARCHITECTURAL IRON WORKS NEW YORK

Sarony, Major & Knapp 449 Broadway N.Y.

No:127.



No:129.



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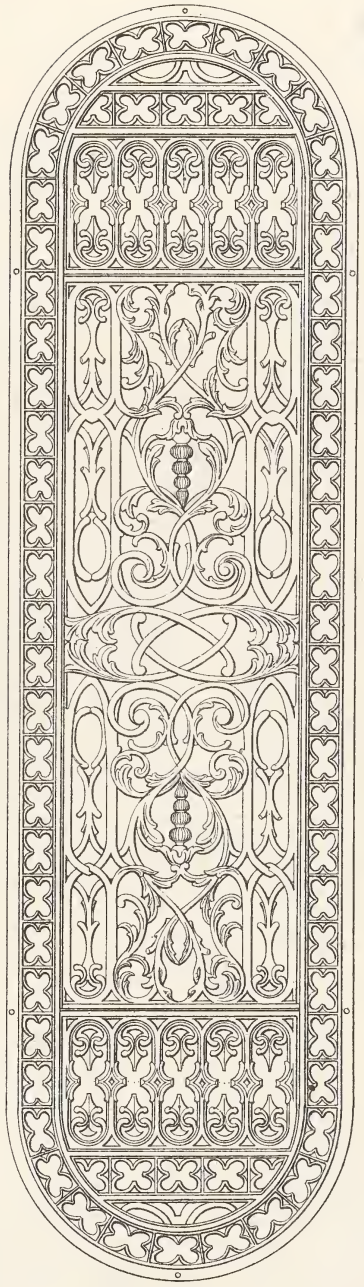

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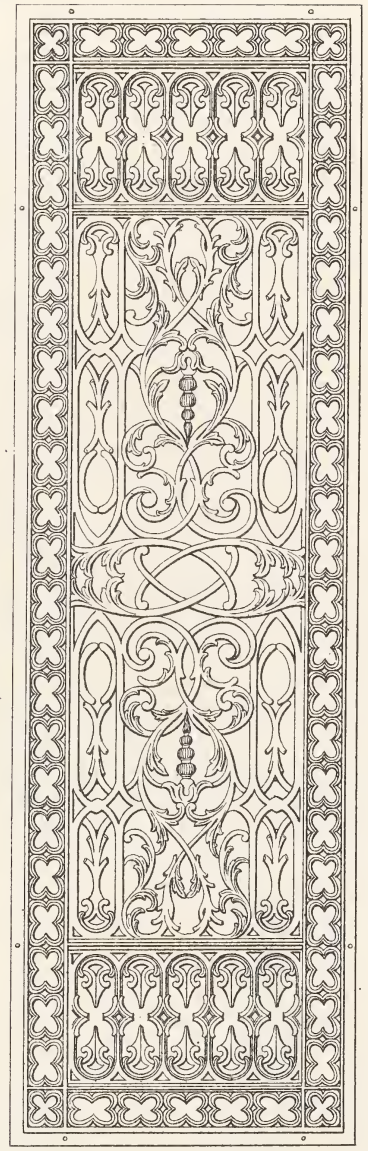

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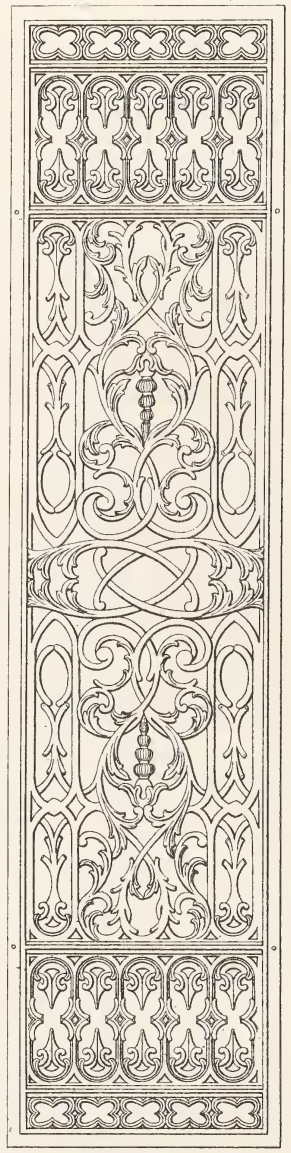

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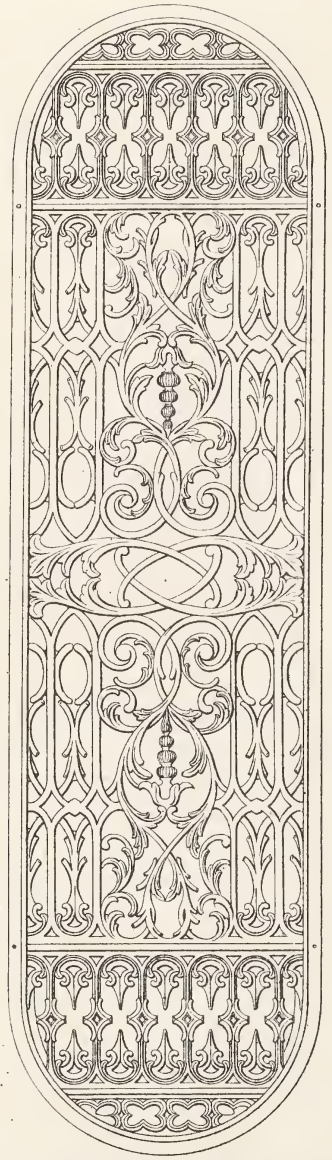

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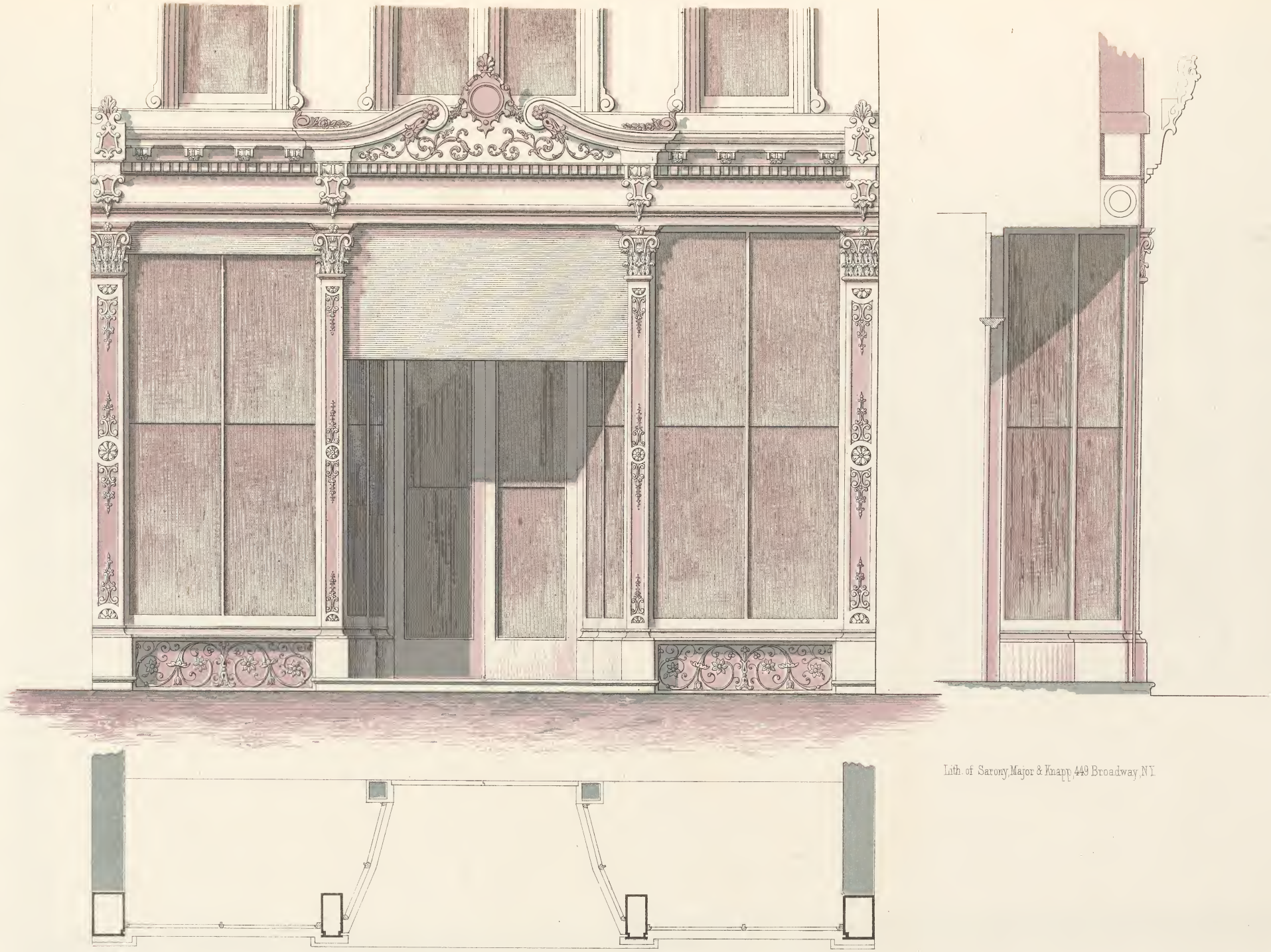
ARCHITECTURAL IRON WORKS,—NEW-YORK.

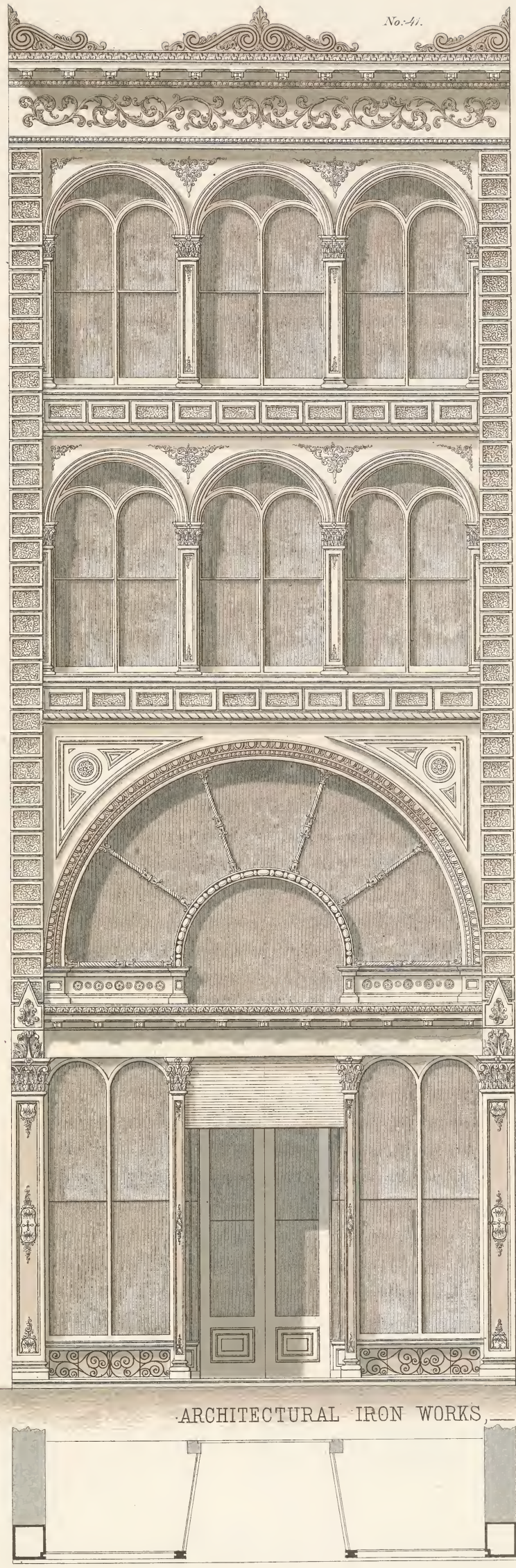
No:40.



Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

No: 41.



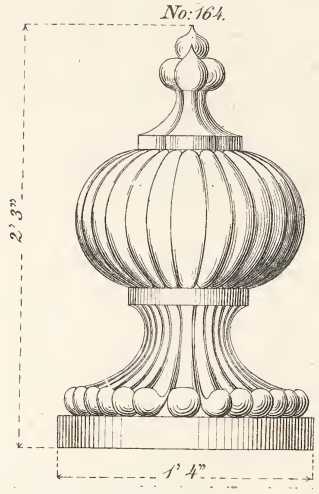
ARCHITECTURAL IRON WORKS, NEW-YORK.

Lith. of Sarony Major & Knapp, 449 Broadway, N.Y.

Plate LXXX.

No:163.

No:164.



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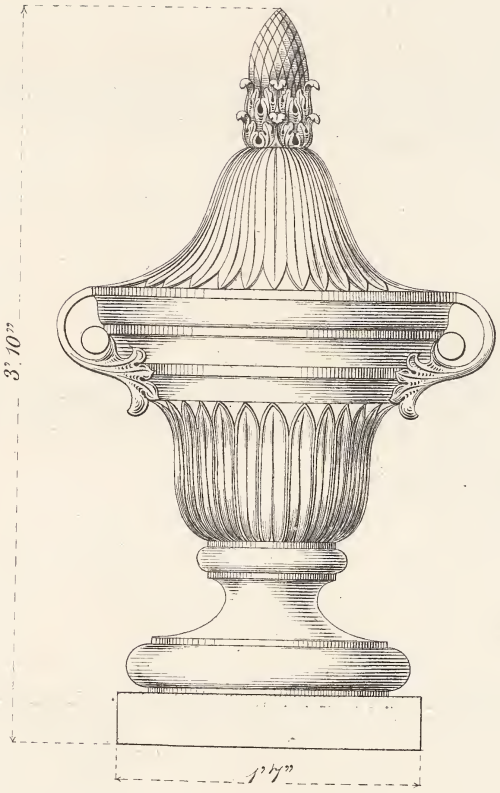

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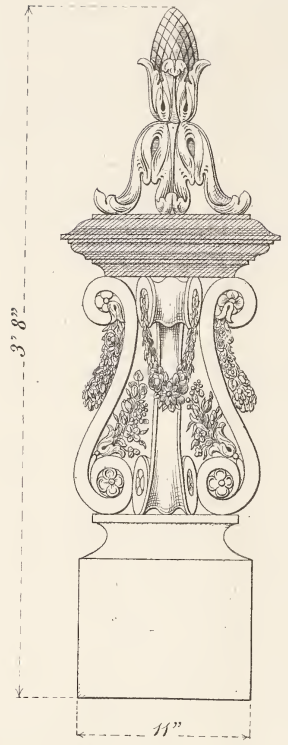

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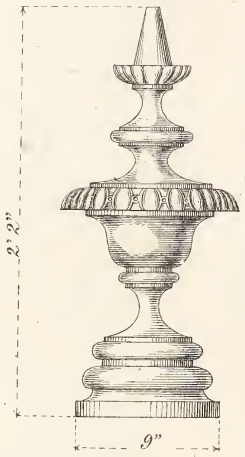

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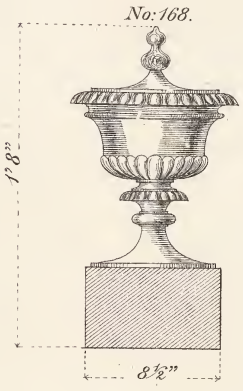

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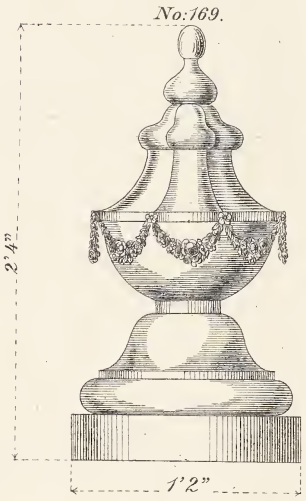

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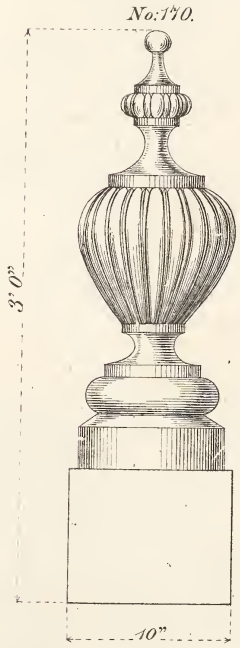

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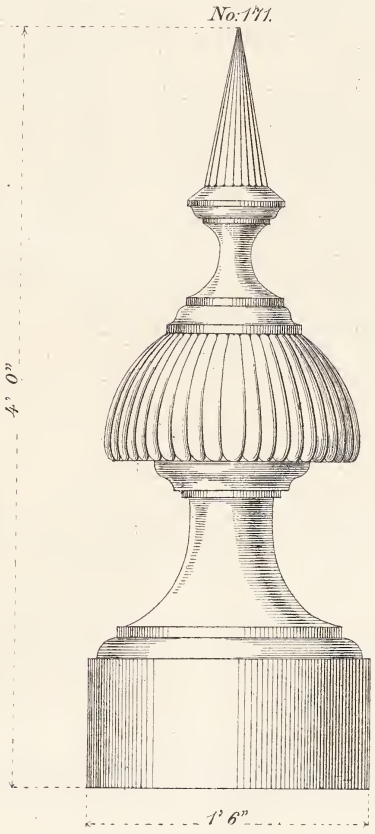

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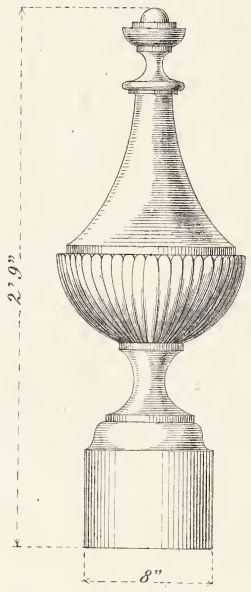

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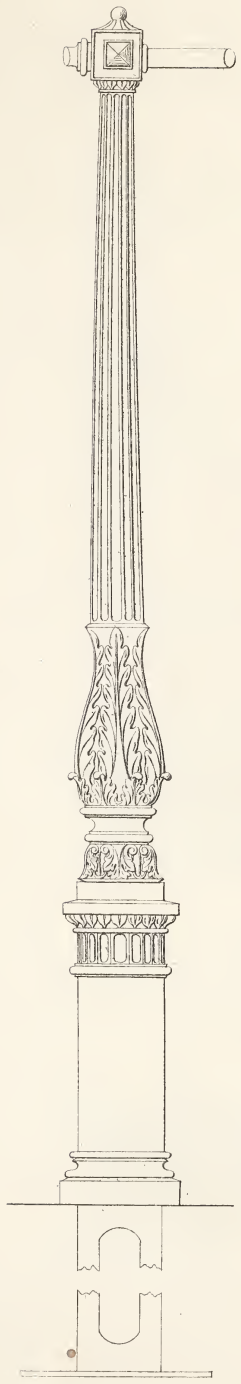
ARCHITECTURAL IRON WORKS,— NEW-YORK.

Plate LXXXI.

No: 173.



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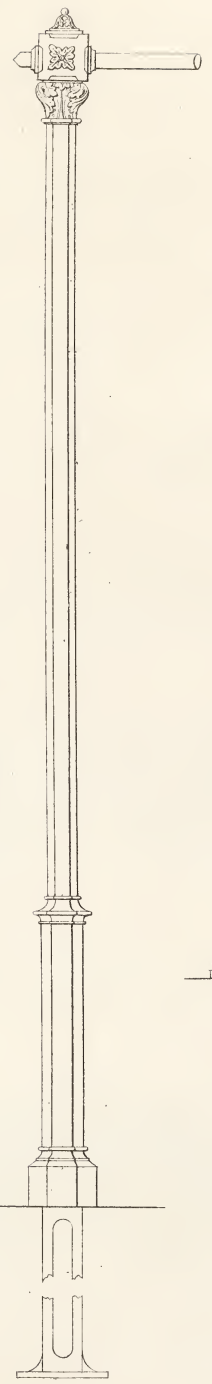

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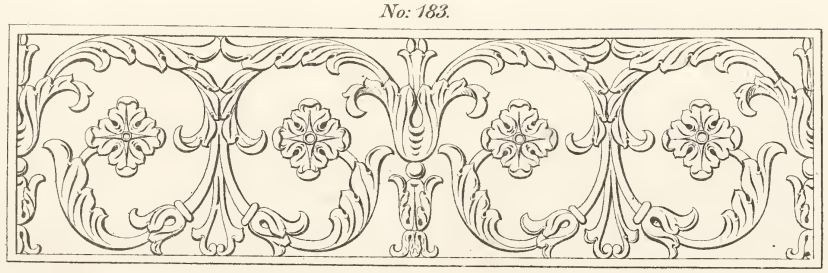

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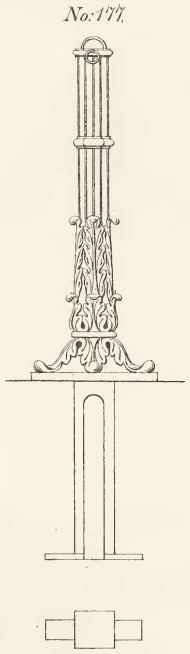

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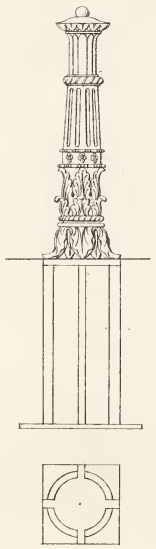
No: 179.



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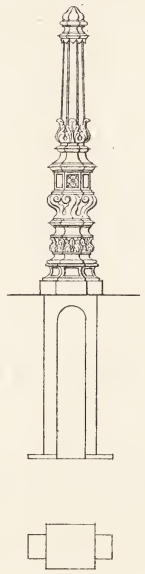

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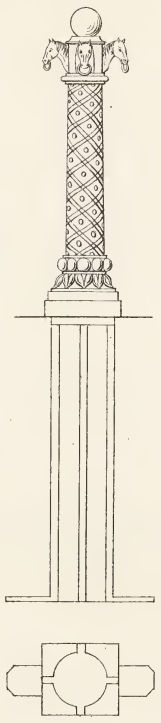

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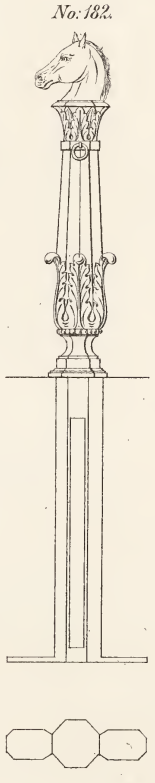

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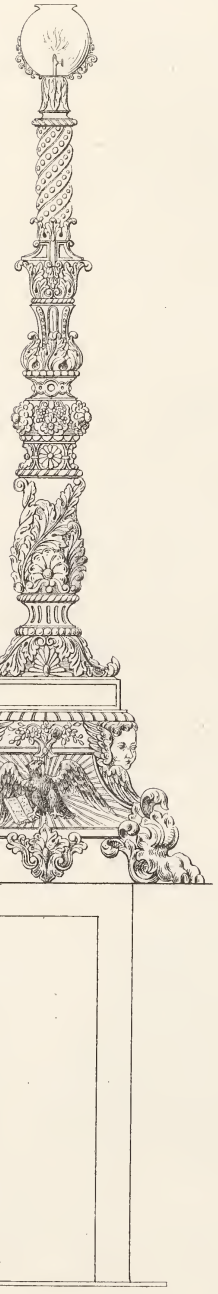

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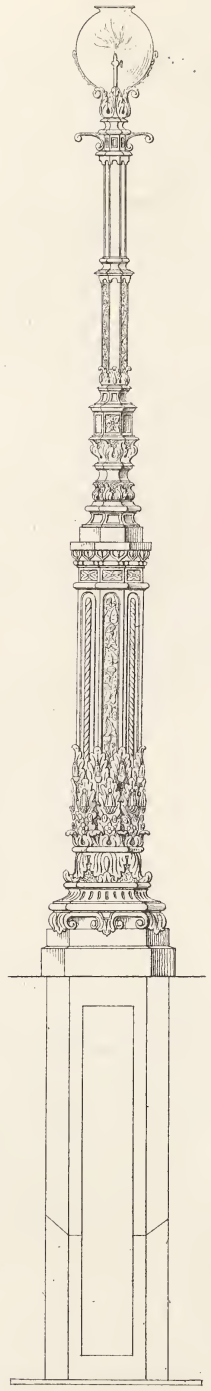
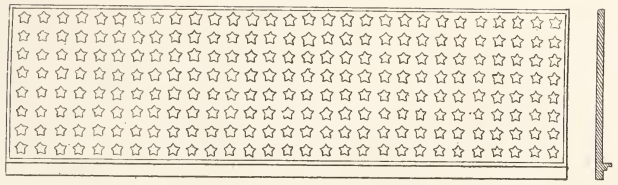


ARCHITECTURAL IRON WORKS,_NEW-YORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

No:185.



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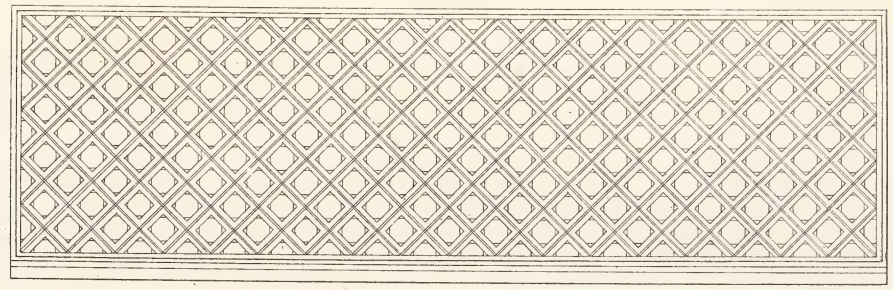

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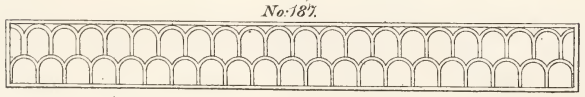

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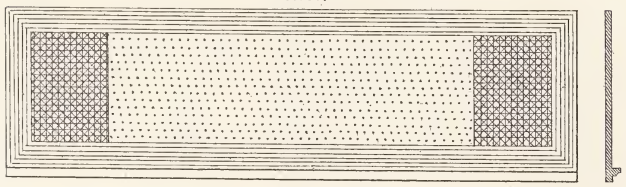

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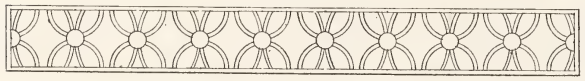

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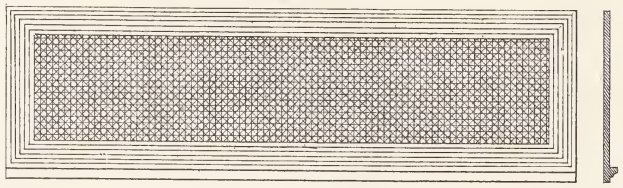

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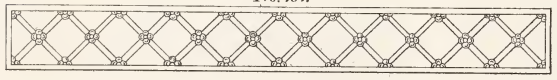

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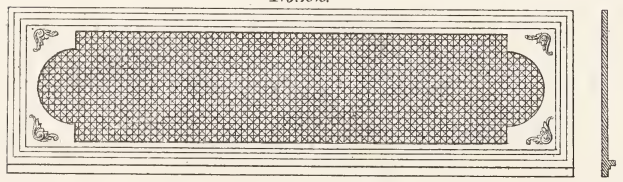

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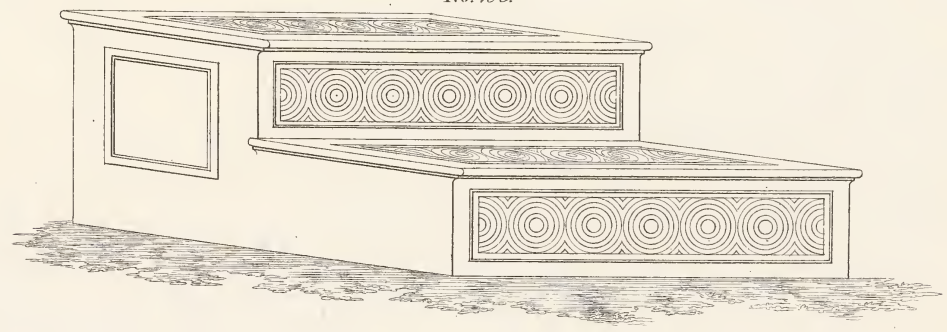

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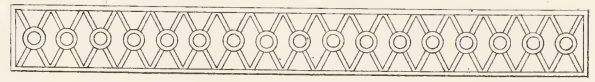

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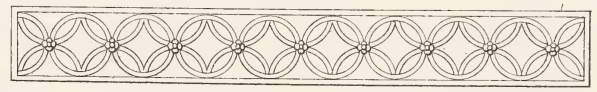

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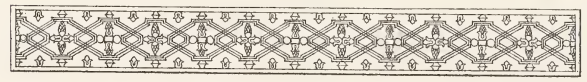

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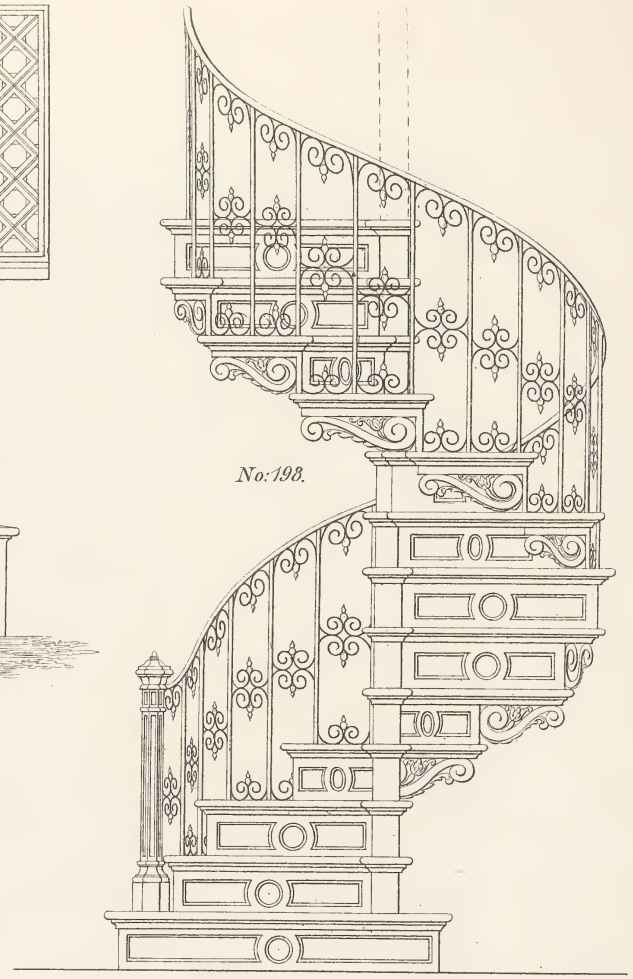
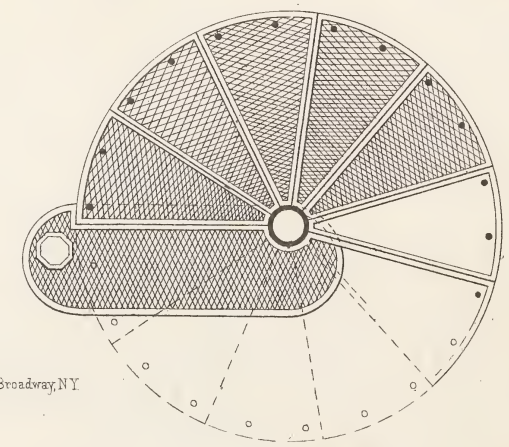




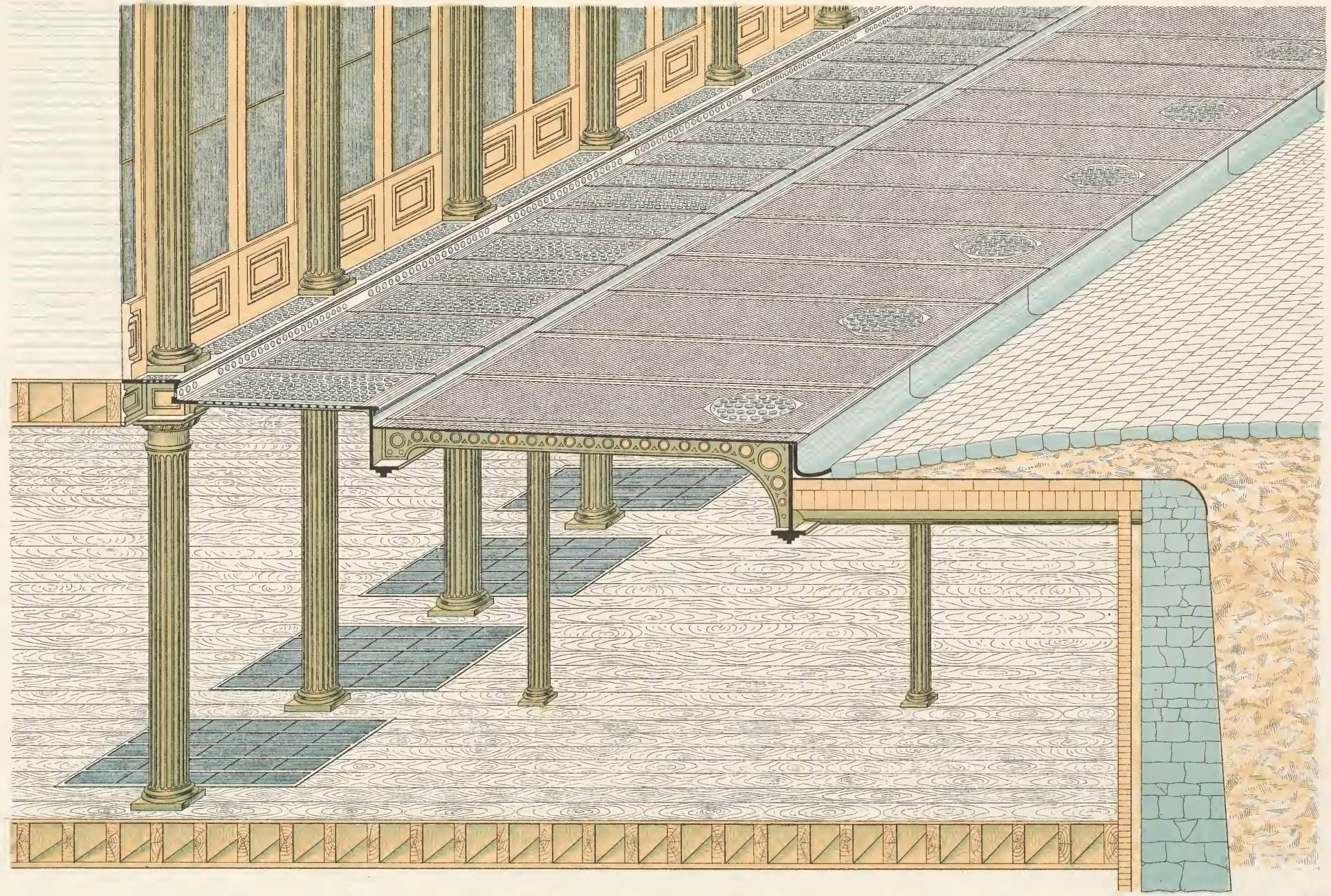
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate LXXXIII.

Elevation & Section of Sidewalk &c, Shewing Vault under Street.

No:45.



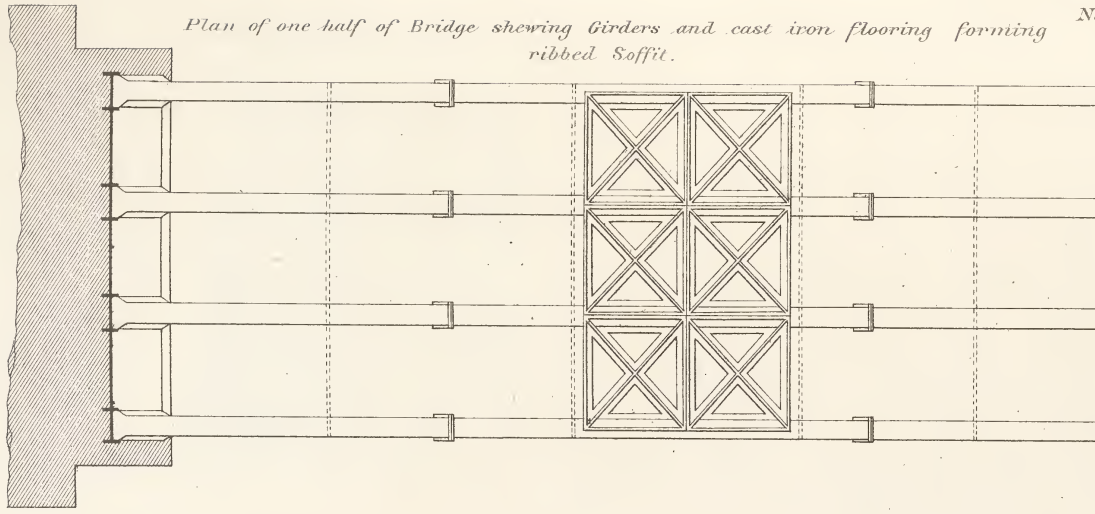
Lith. of Sarony, Major & Knapp, 449 Broadway, NY

Design for a Single track Railroad Bridge, 80 feet Span.

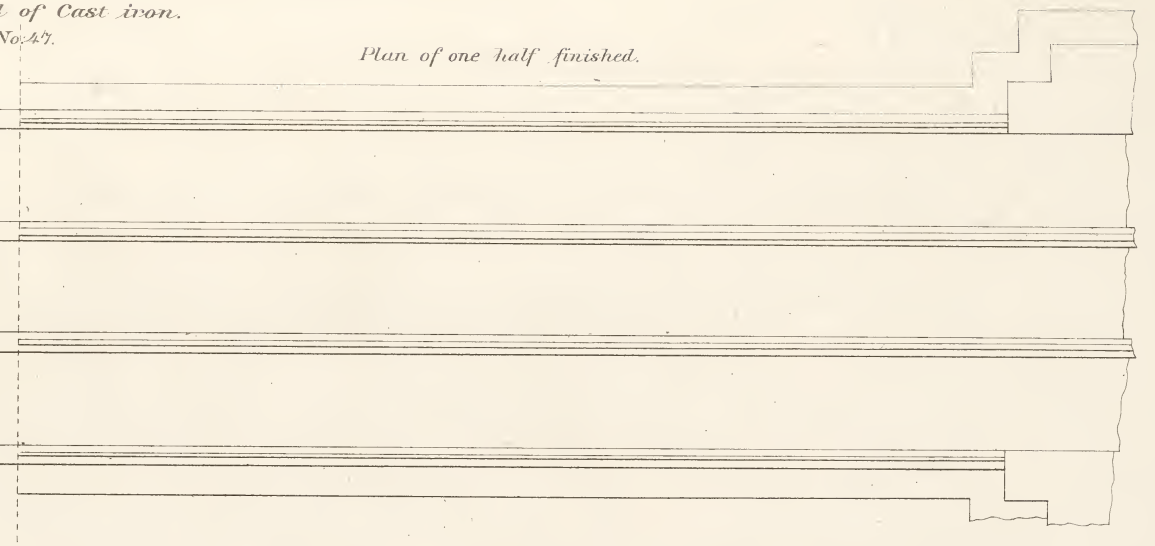
Constructed of Cast iron.

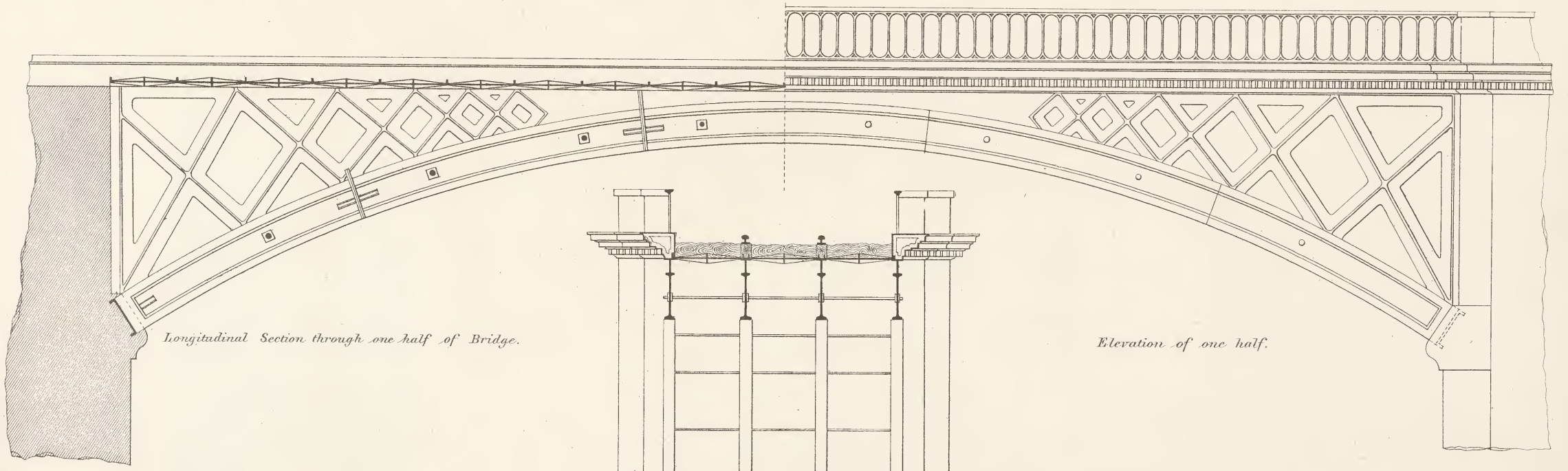
No. 47.

Plan of one half of Bridge shewing Girders and cast iron flooring forming ribbed Soffit.



Plan of one half finished.





Longitudinal Section through one half of Bridge.

Elevation of one half.

Transverse Section through crown of Arch.

Scale, ⅛ of an inch to a foot.

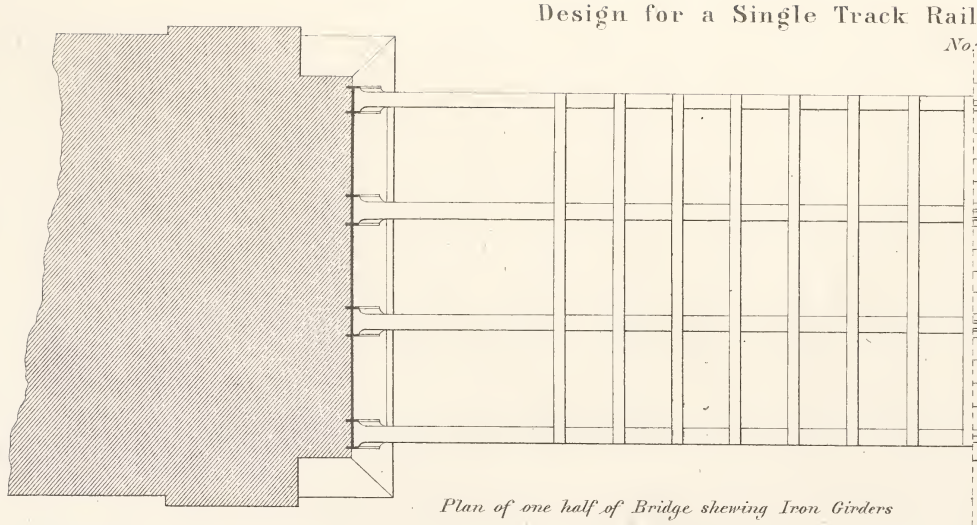
Lith. of Sarony, Major & Knapp, 449 Bridway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

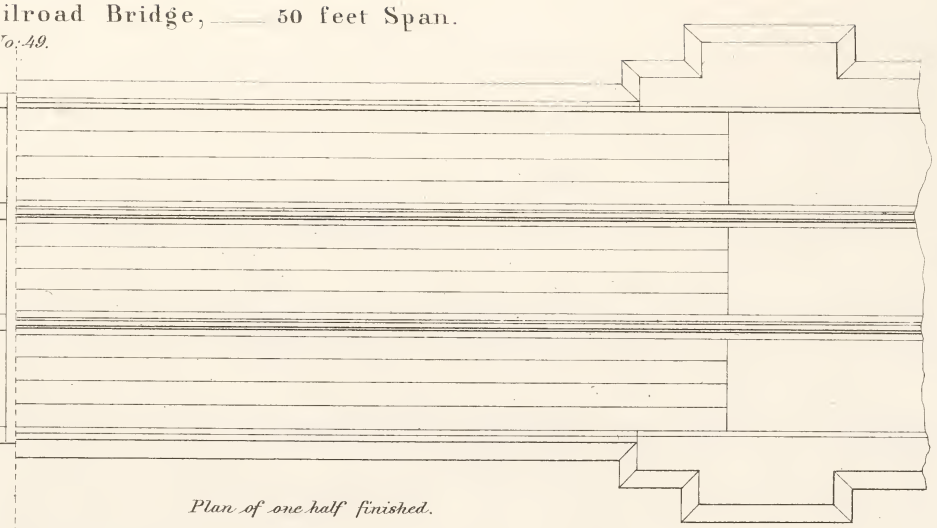
Plate LXXXV

Design for a Single Track Railroad Bridge, — 50 feet Span.

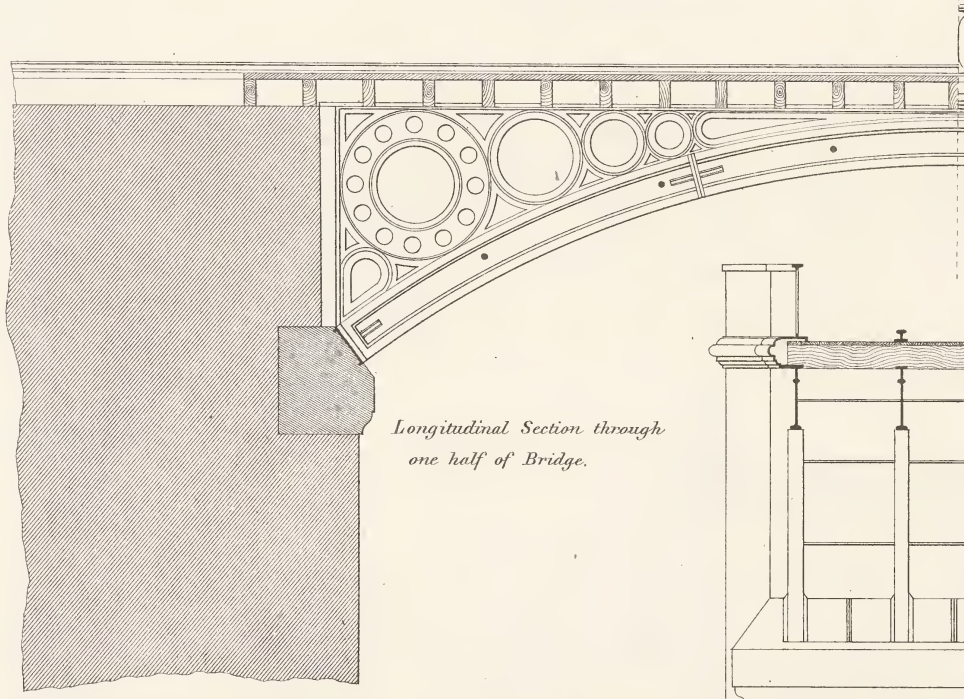
No: 49.



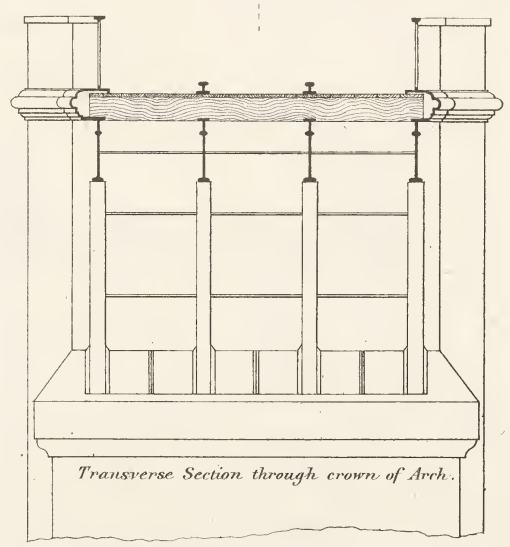
Plan of one half of Bridge shewing Iron Girders & wood beams.



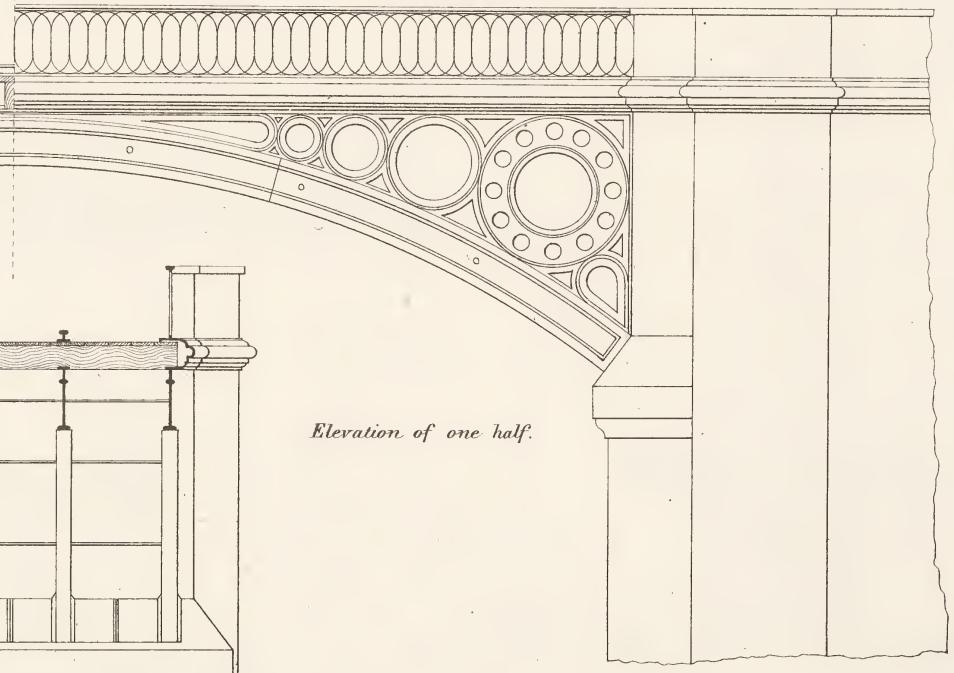
Plan of one half finished.



Longitudinal Section through one half of Bridge.



Transverse Section through crown of Arch.



Elevation of one half.

Scale, ⅛ of an inch to a foot.

Lith. of Sarony, Major & Knapp, 449 Broadway NY

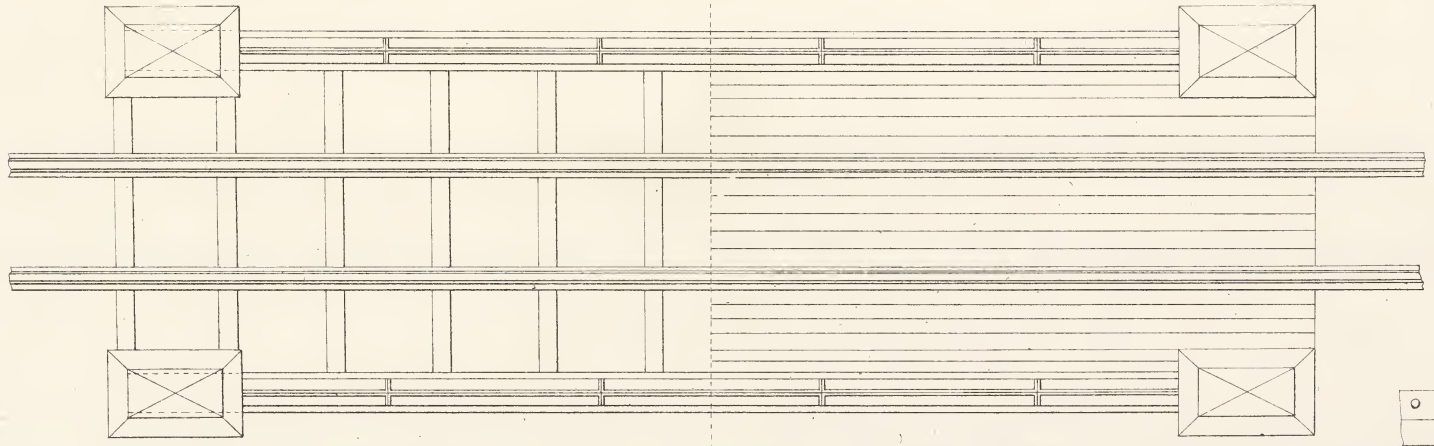
ARCHITECTURAL IRON WORKS, — NEW-YORK.

Plate LXXXVI

Design for a Single track Railroad Bridge, 40 feet between bearings.

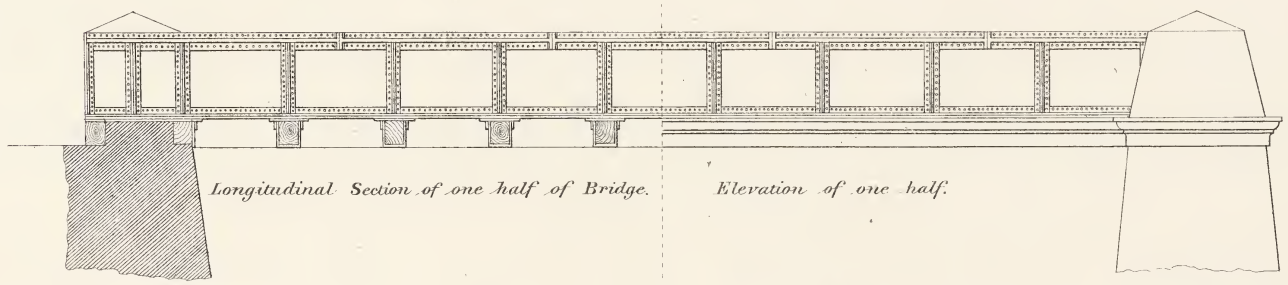
Constructed of wrought and Cast iron combined.

No: 57.



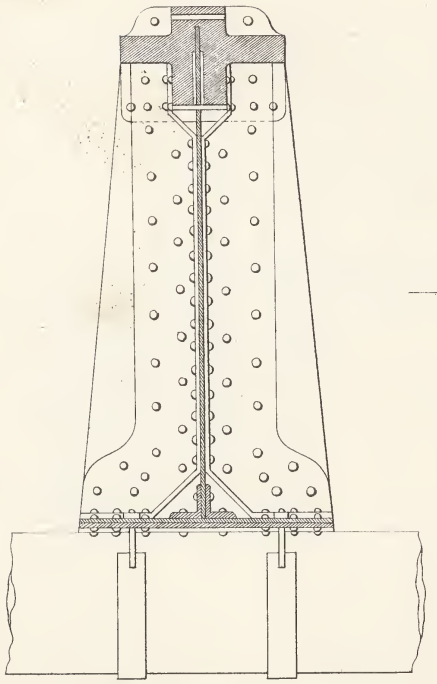
Plan of one half of Bridge, shewing naked frame work.

Plan of one half finished.



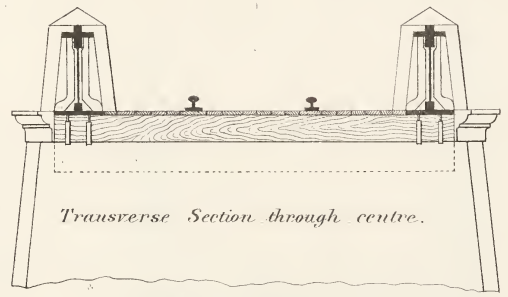
Longitudinal Section of one half of Bridge.

Elevation of one half.



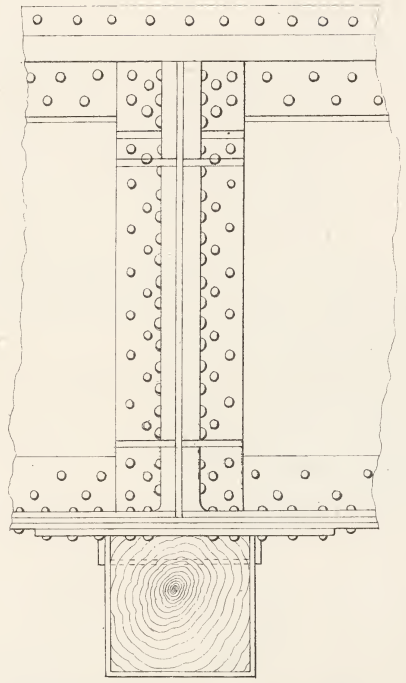
Section through Girder.

Scale, ¾ of an inch to a foot.



Transverse Section through centre.

Scale, ½ of an inch to a foot.



Side view of a portion of Girder.

Scale, ¾ of an inch to a foot.

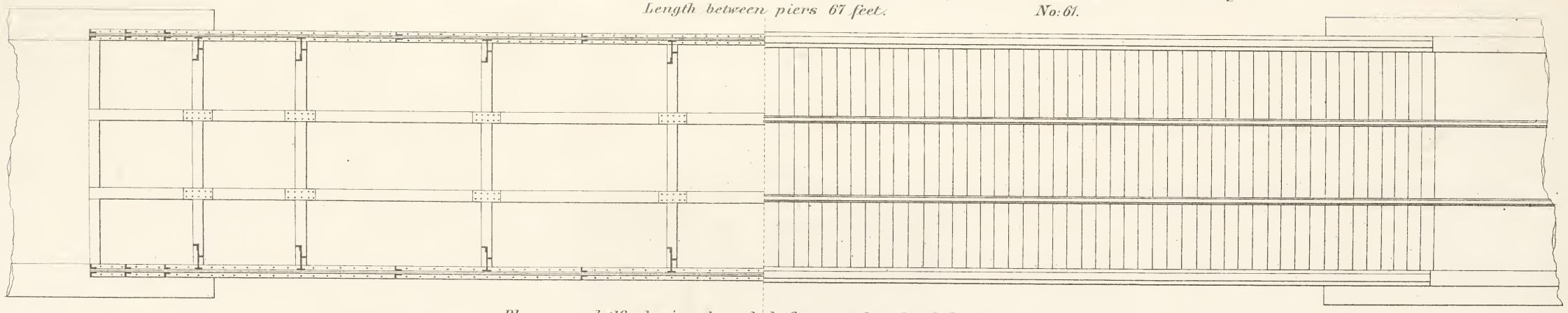
ARCHITECTURAL IRON WORKS,—NEW-YORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

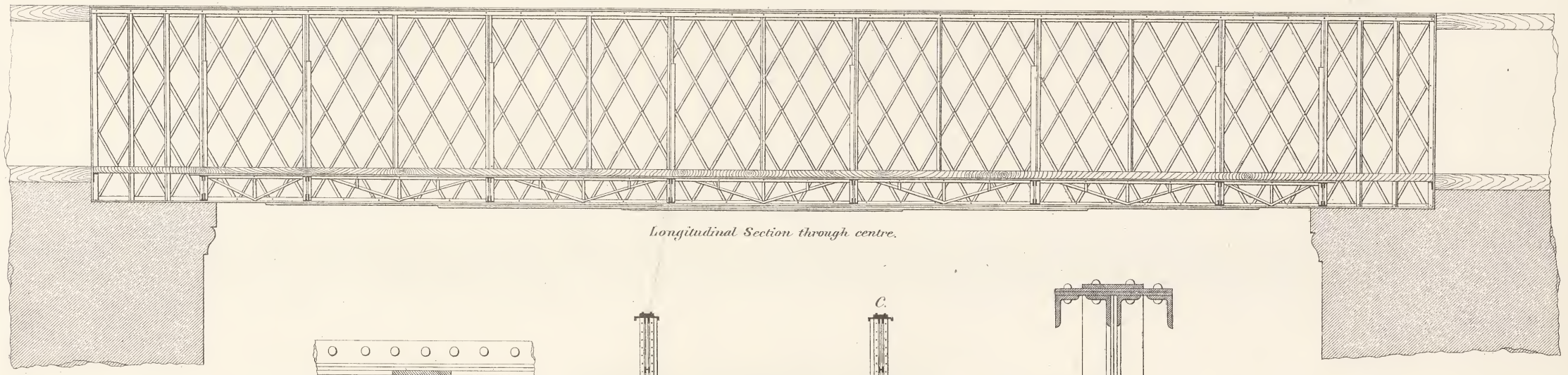
Plate LXXXVII

Design for a Single track Railroad Bridge, constructed of wrought iron;—Lattice Principle.

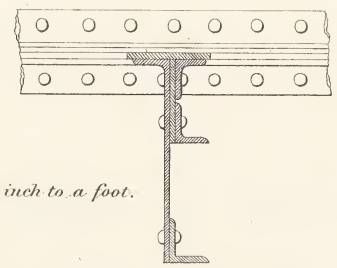
Length between piers 67 feet. *No: 61.*



Plan; one half shewing the naked frame;— the other half finished.

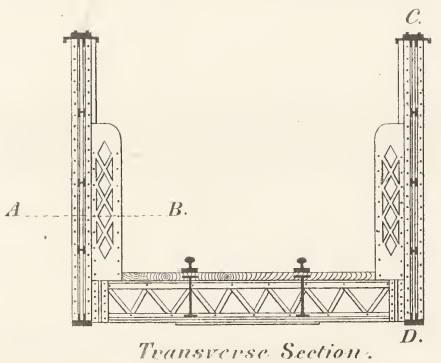


Longitudinal Section through centre.



Scale, ¾ of an inch to a foot.

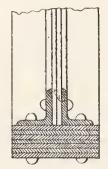
Section on line A. B.



Transverse Section.

Scale, ⅛ of an inch to a foot.

Section at C.



Scale, ¾ of an inch to a foot.

Section at D.

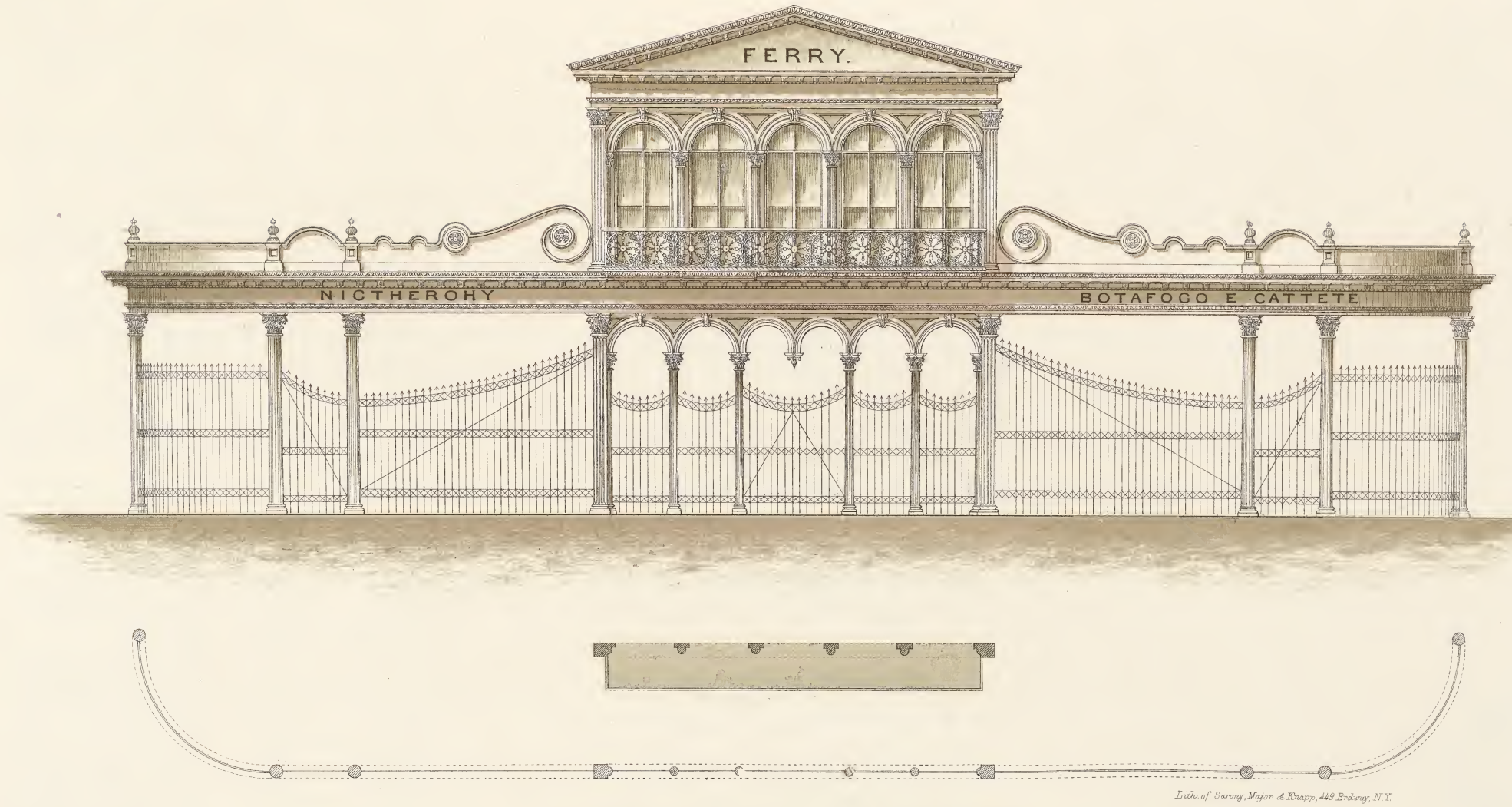
Lith. of Sarony, Major & Knapp, 449 Brdway N.Y.

ARCHITECTURAL IRON WORKS,— NEW-YORK.

Plate LXXXVIII

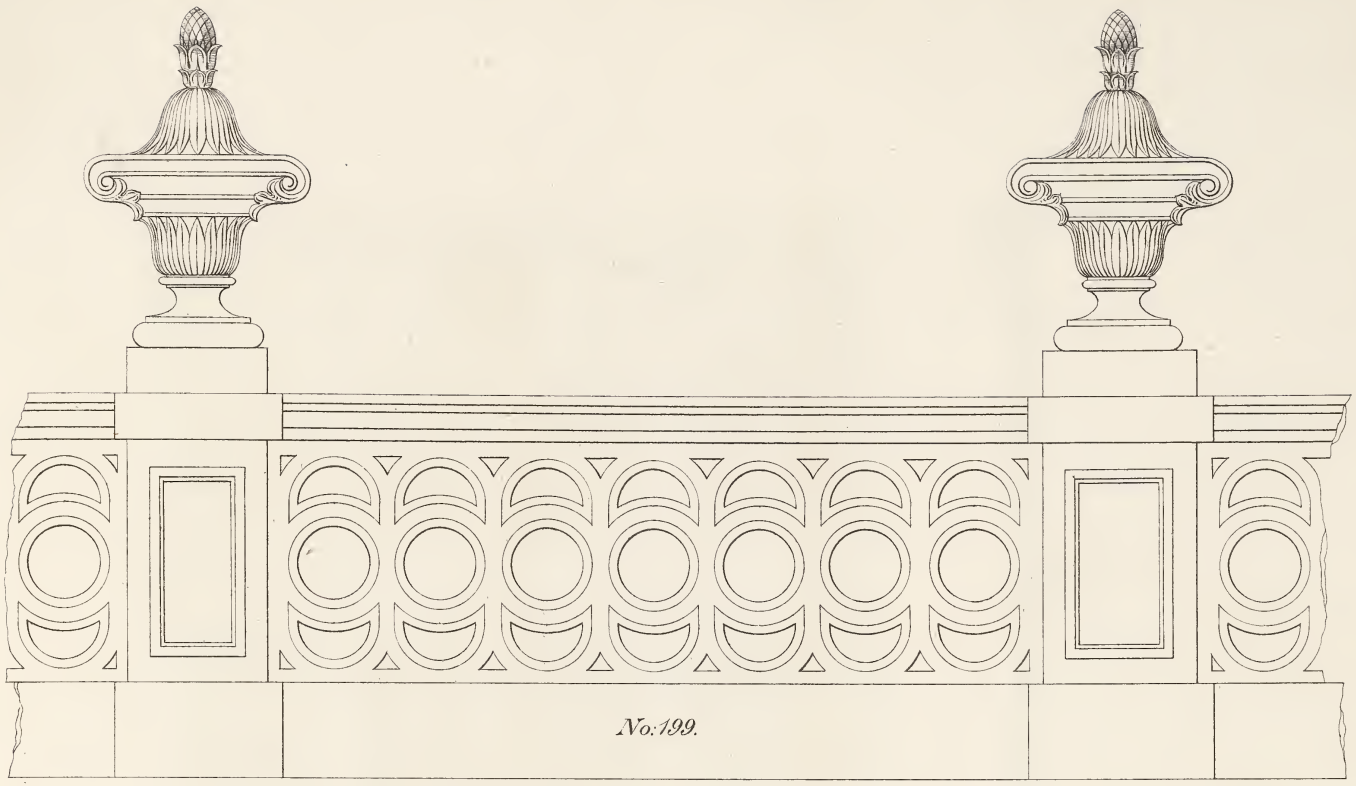
Ferry House, Built for Dr. Thomas Rainey, Rio Janeiro. Brazil.

No: 74.



Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.



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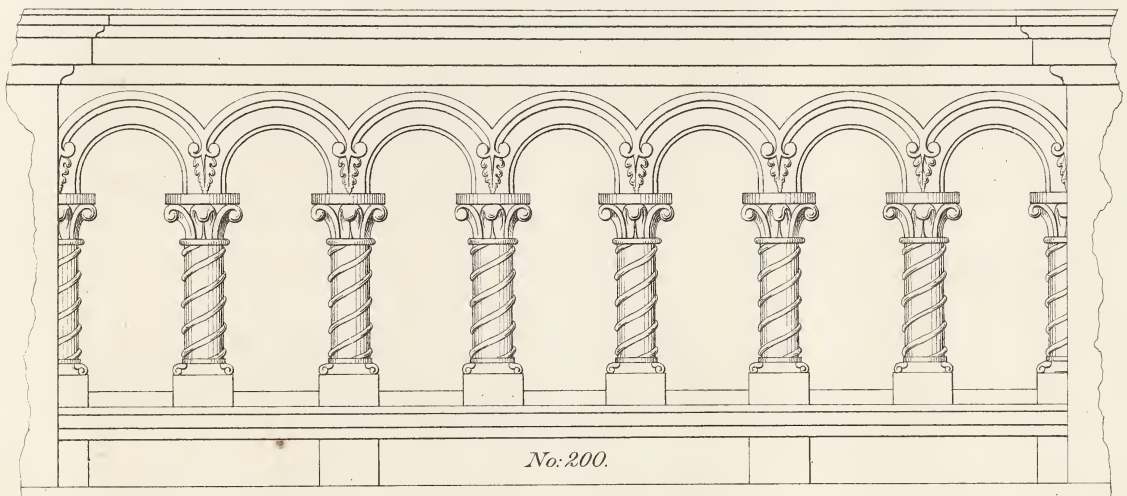

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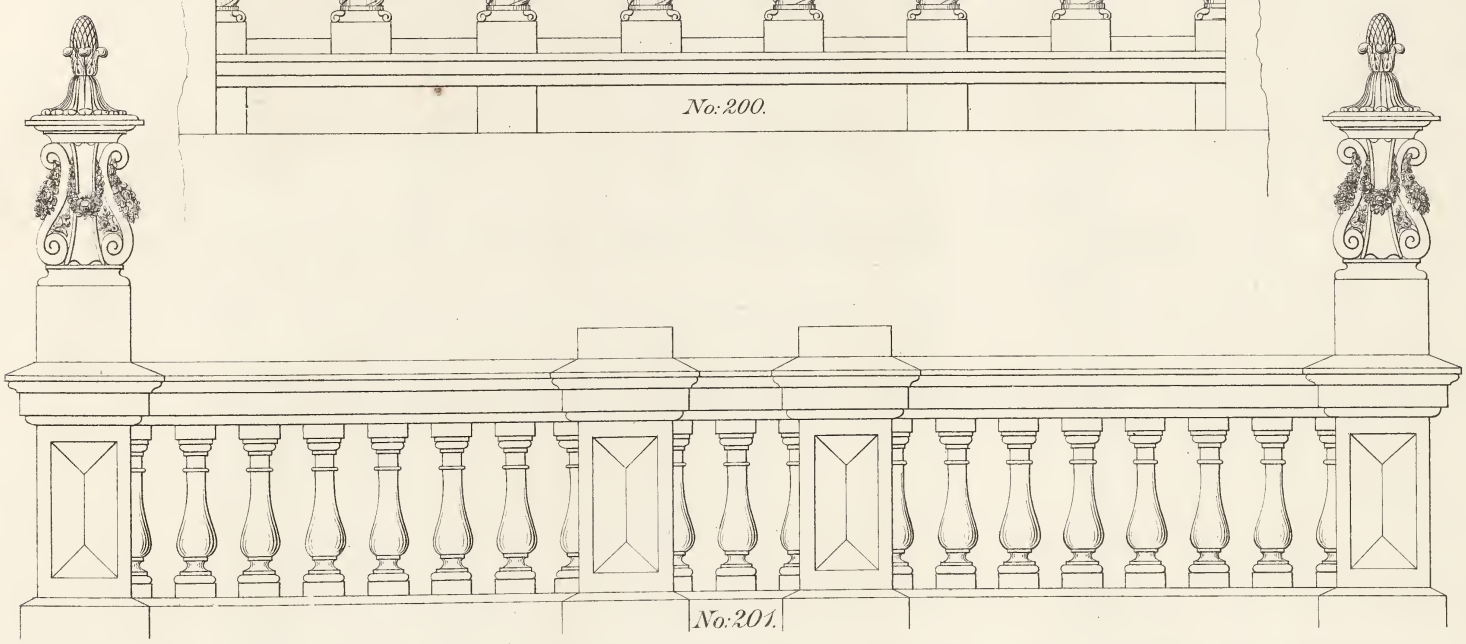

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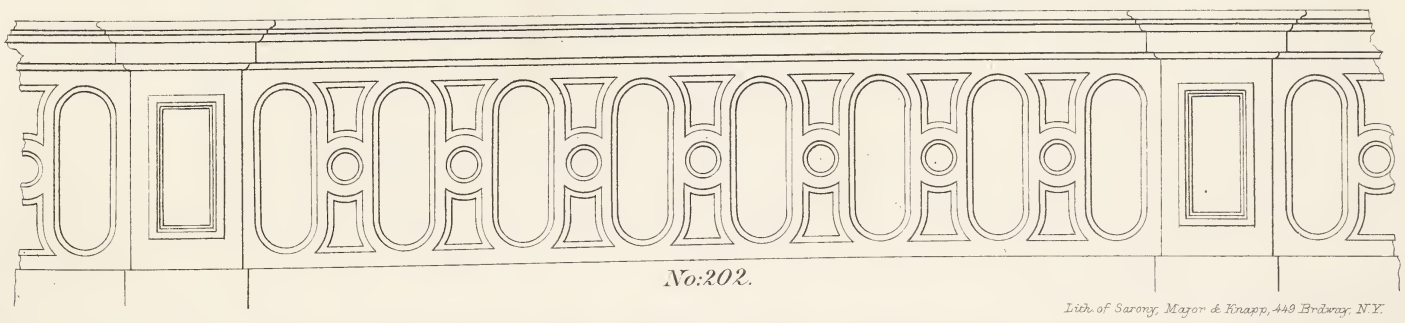


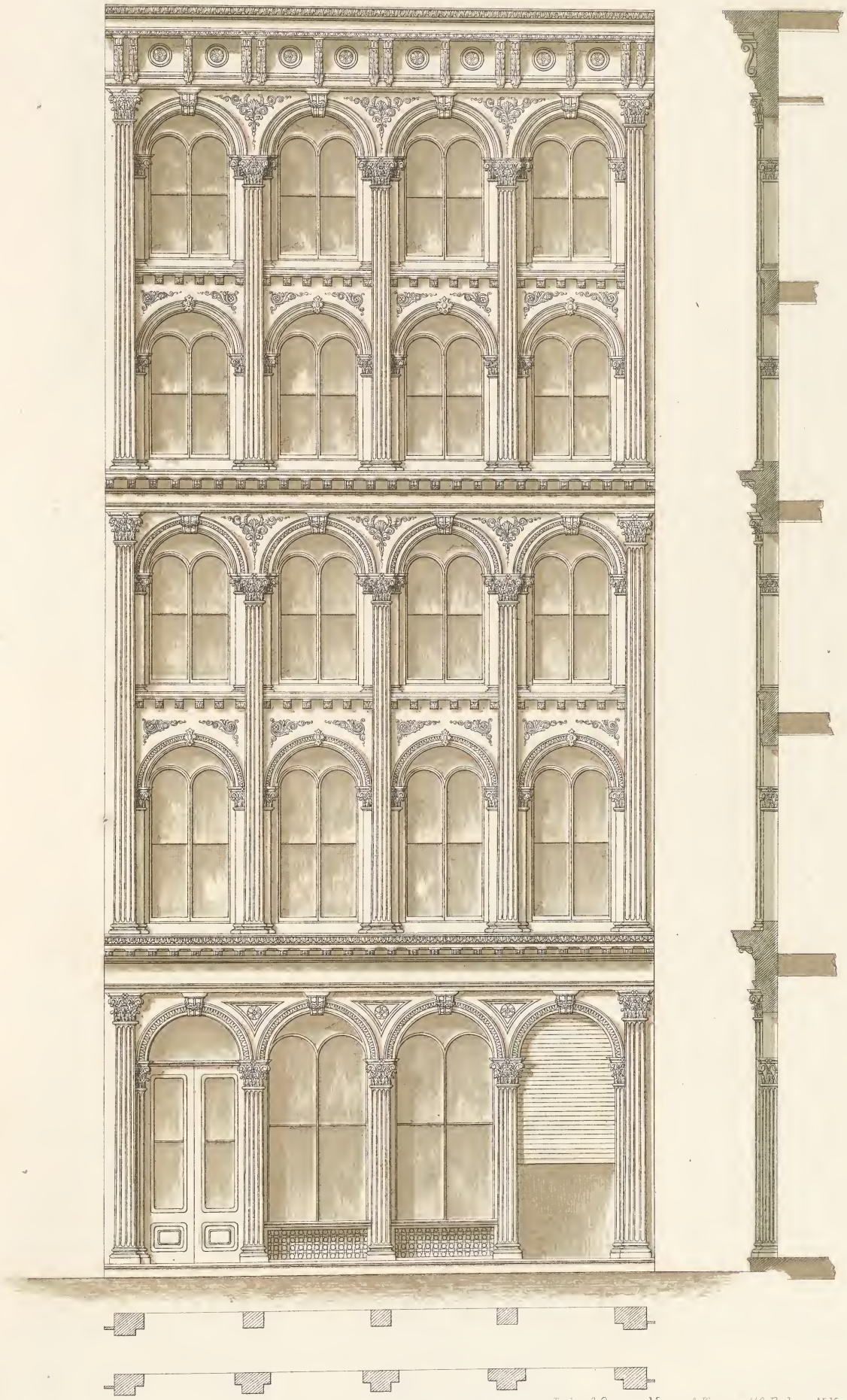
No: 202.

Lith. of Sarony, Major & Knapp, 449 Bridway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

Plate XC.

No: 14.

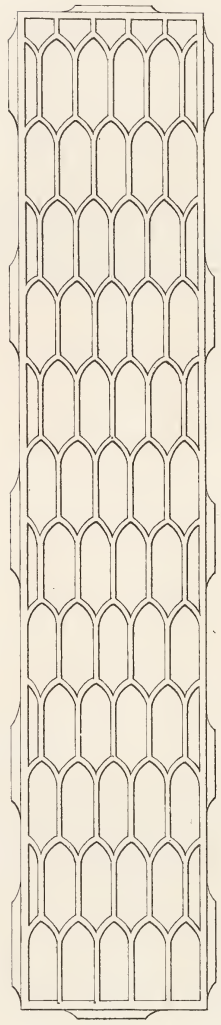


Lith. of Sarony, Major & Knapp, 449 Broadway N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.

No: 203.

No: 48.



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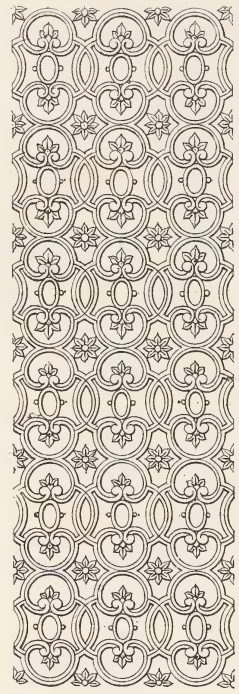

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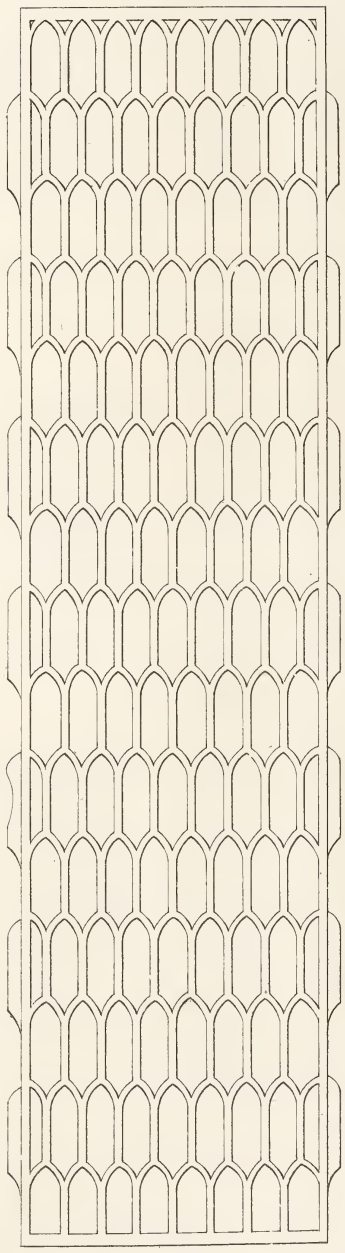

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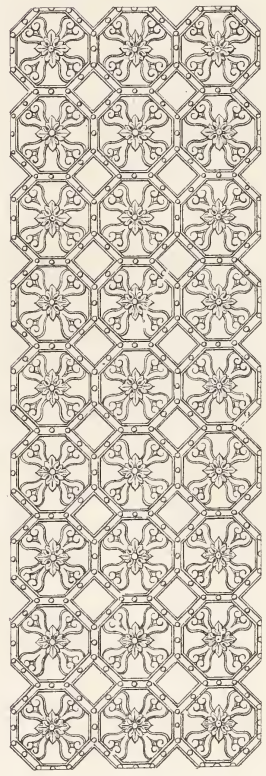

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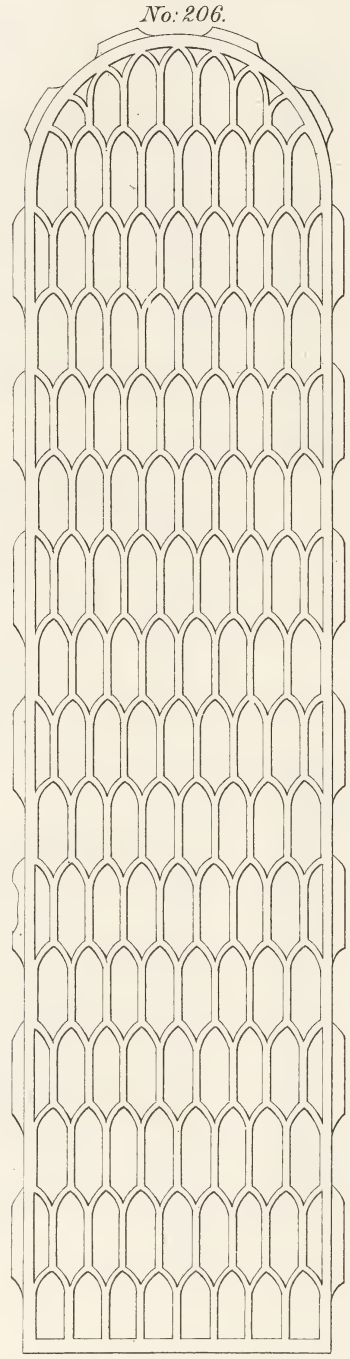
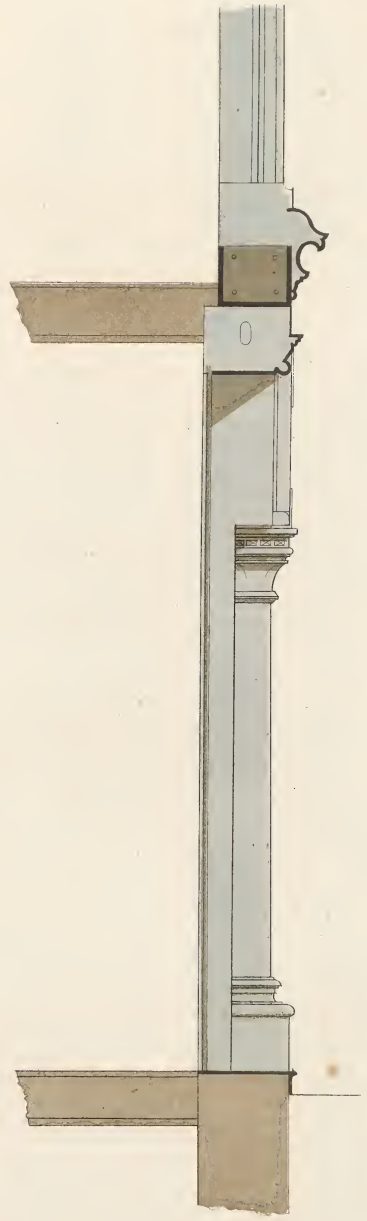


Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

Plate XCII.

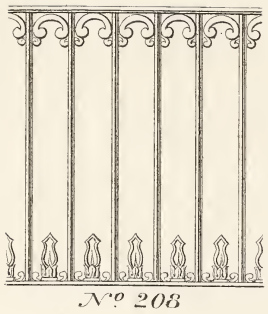
№ 7



ARCHITECTURAL IRON WORKS.- NEWYORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

Plate XCIII.



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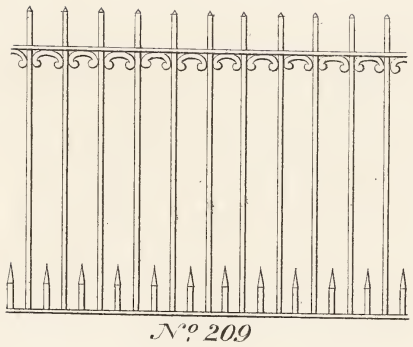

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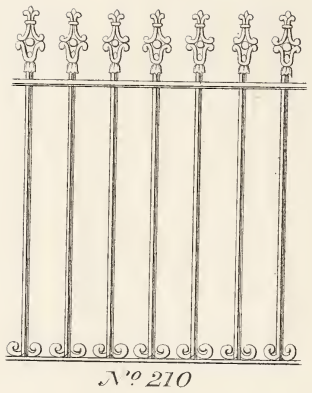

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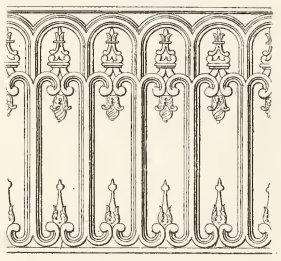

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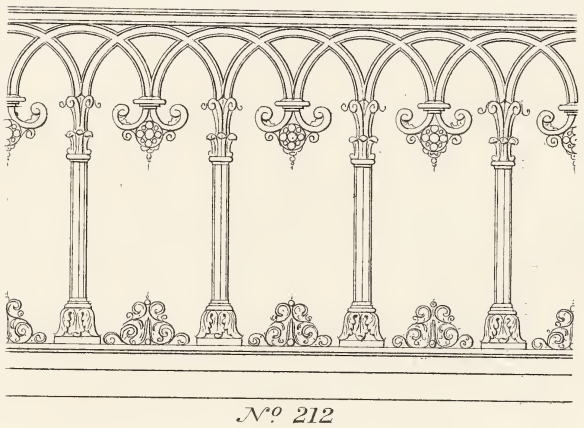

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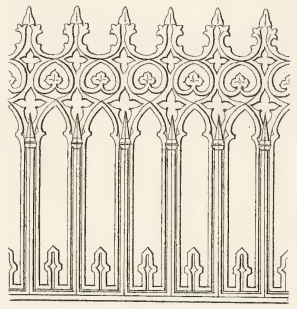

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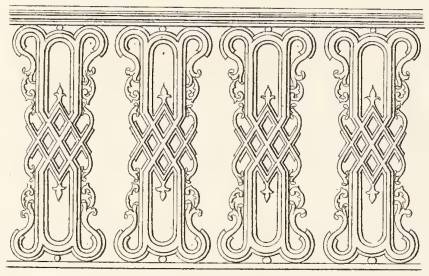

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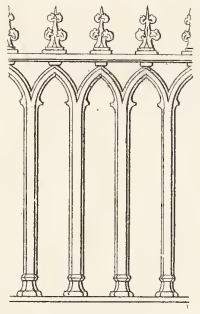

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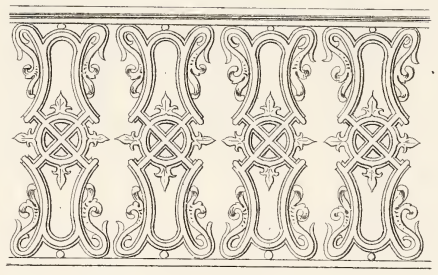

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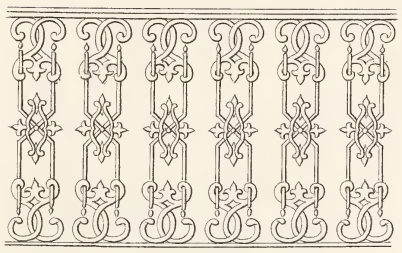

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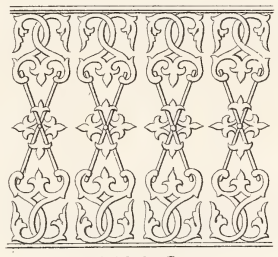

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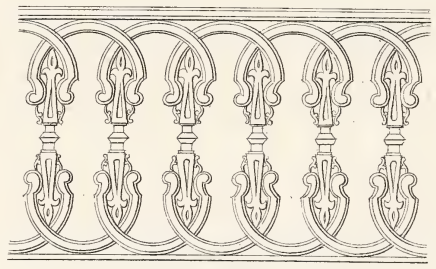

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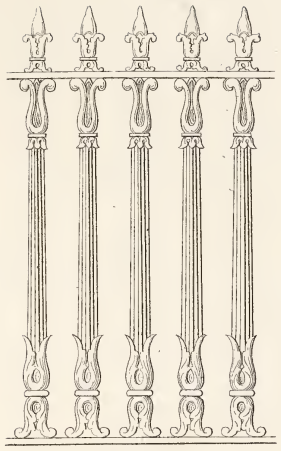
ARCHITECTURAL IRON WORKS,—NEW-YORK.

Lith of Sarony Major & Knapp, 449 Bdway N.Y.

Plate XCIV.



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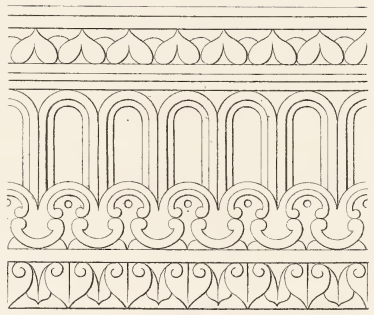

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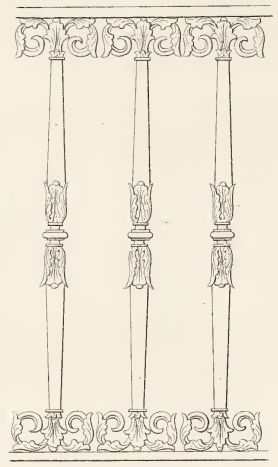

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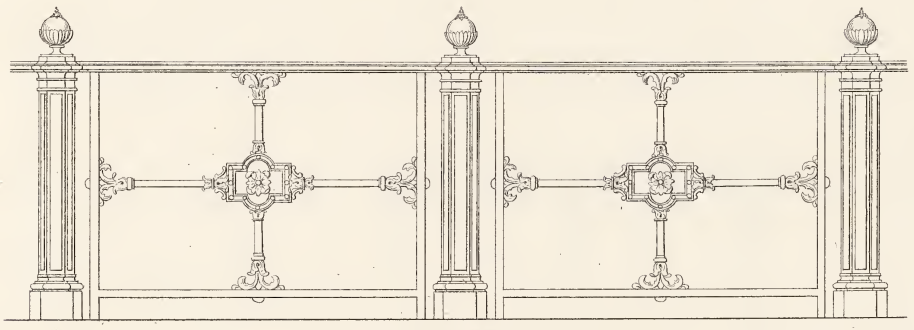

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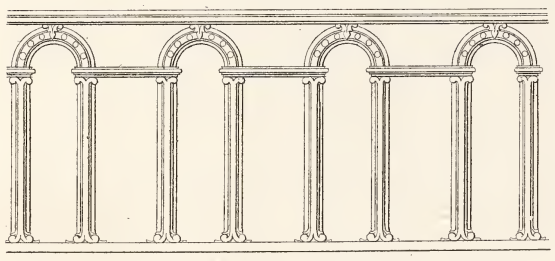

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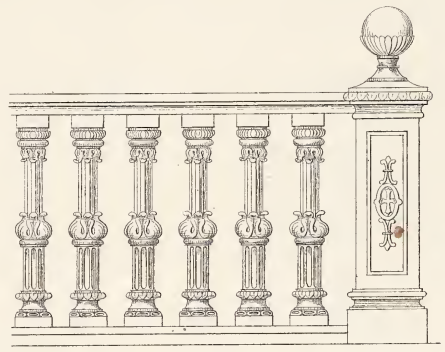

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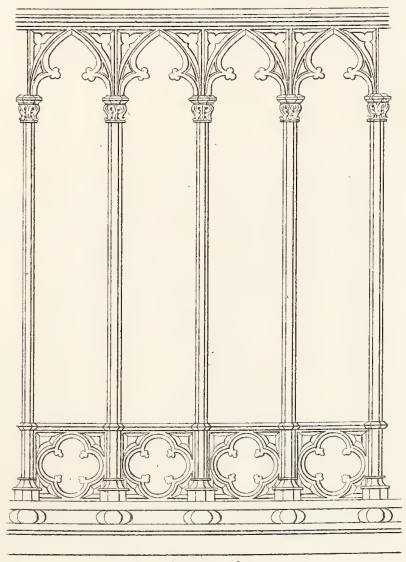

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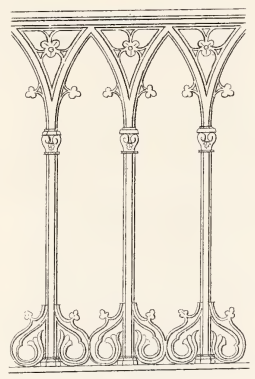

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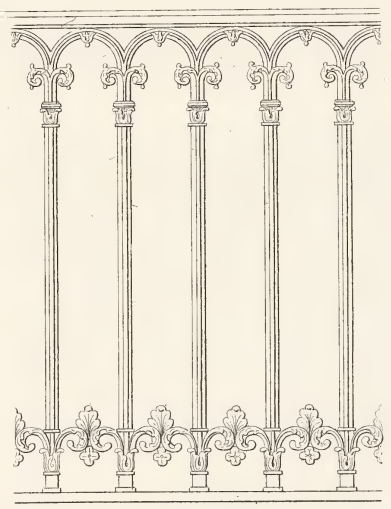
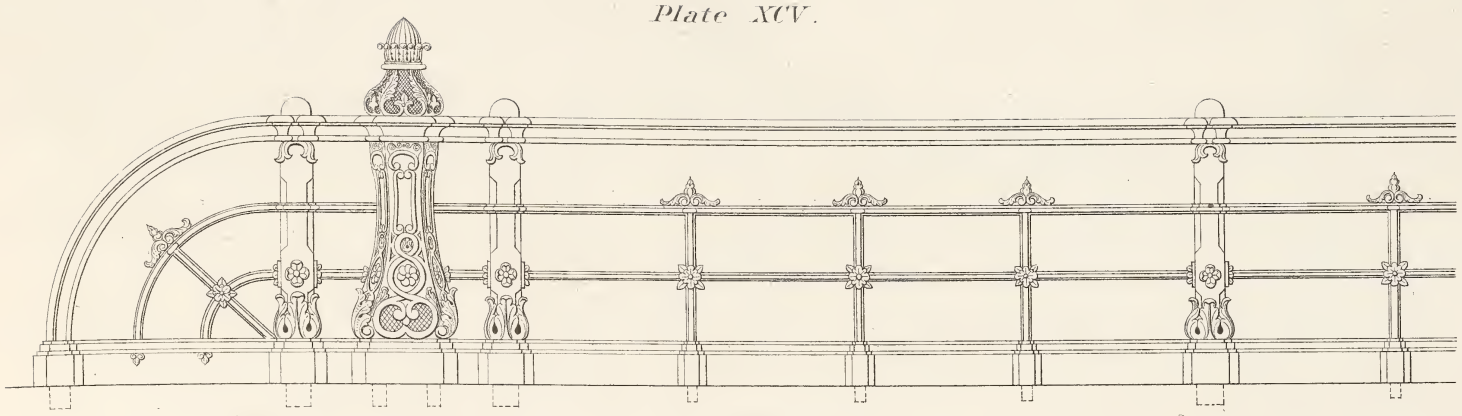


No. 228

ARCHITECTURAL IRON WORKS.—NEW YORK.

Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

Plate XCV.



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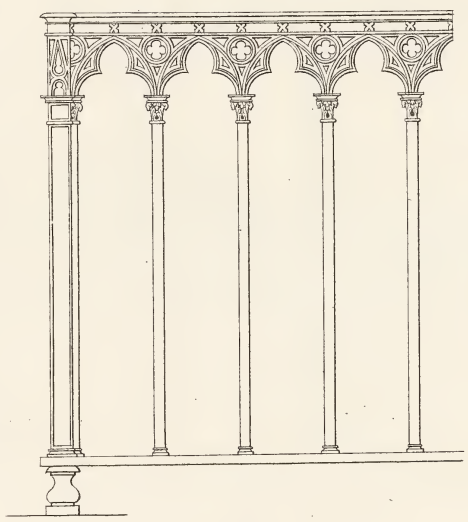

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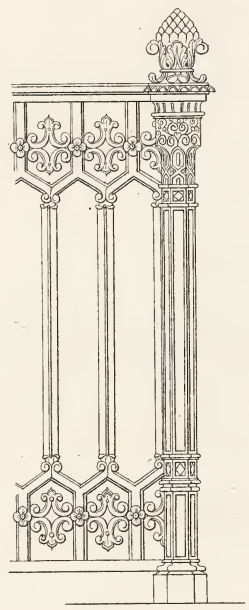

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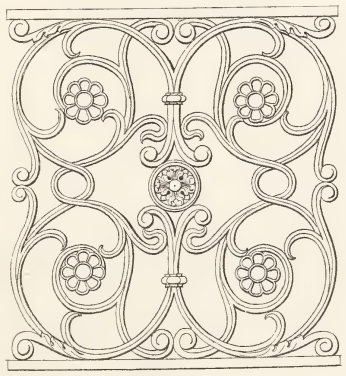

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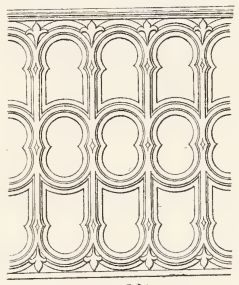

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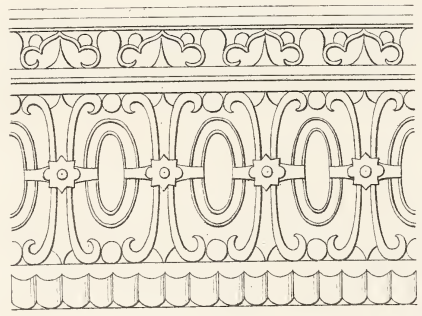

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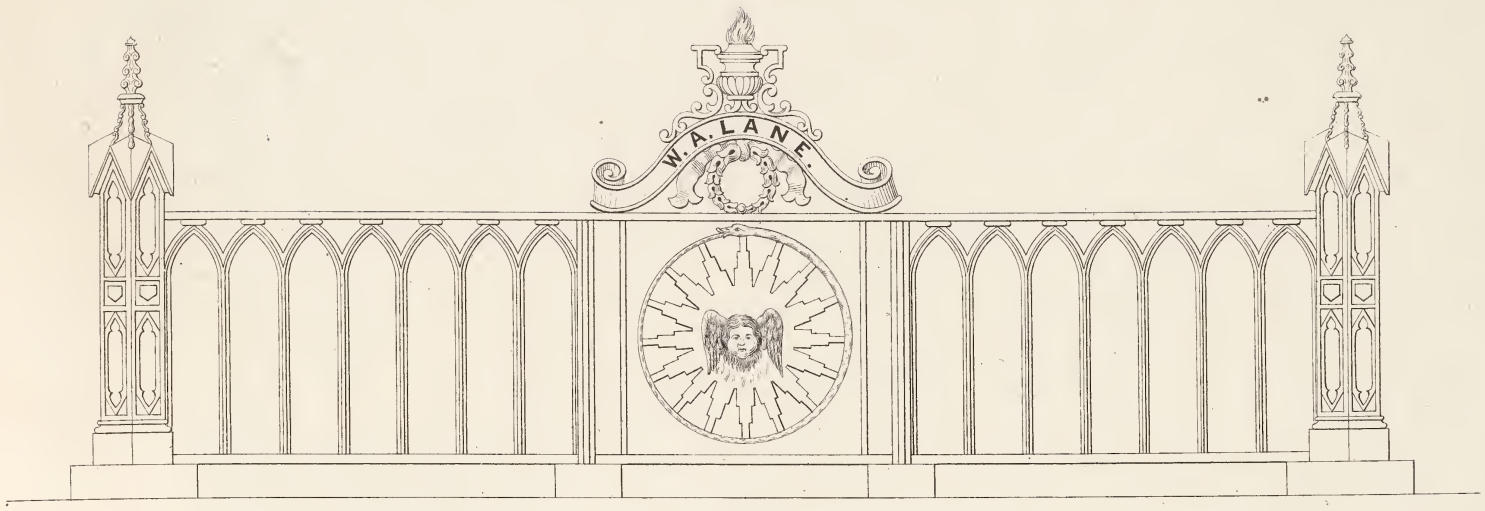
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,— NEW-YORK.



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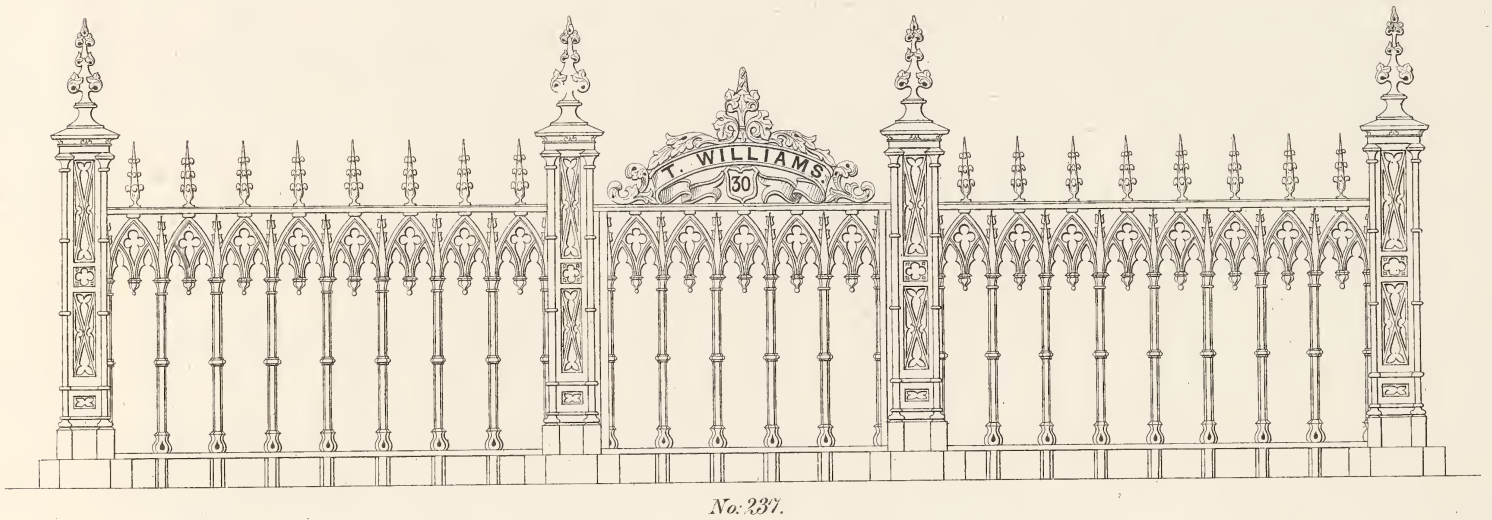

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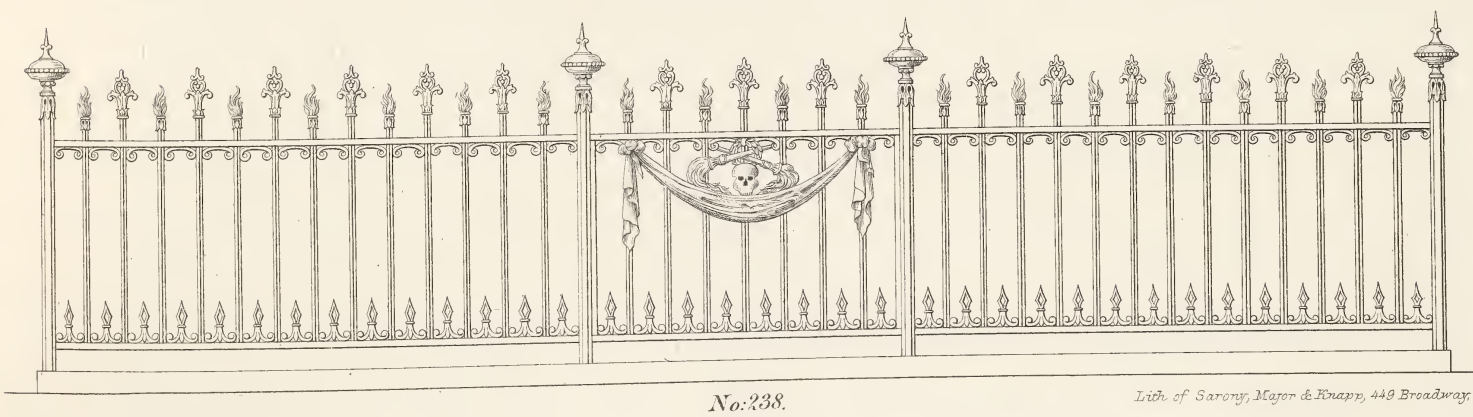

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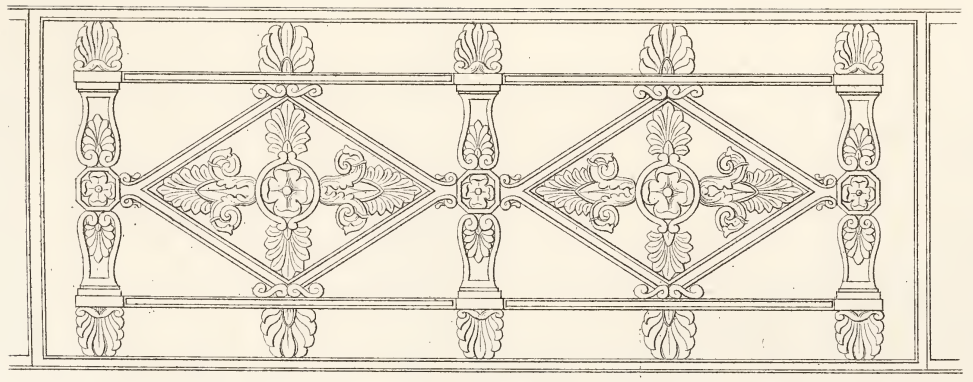
Lith. of Sarony, Major & Knapp, 449 Broadway, N.Y.

ARCHITECTURAL IRON WORKS,— NEW-YORK.

Plate XCVII.



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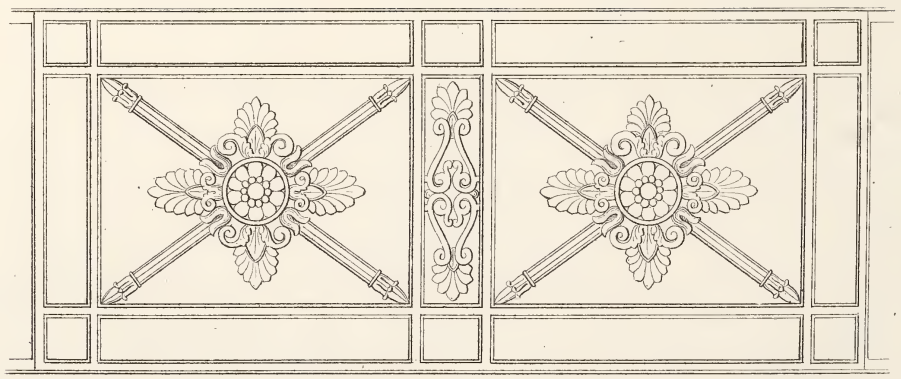

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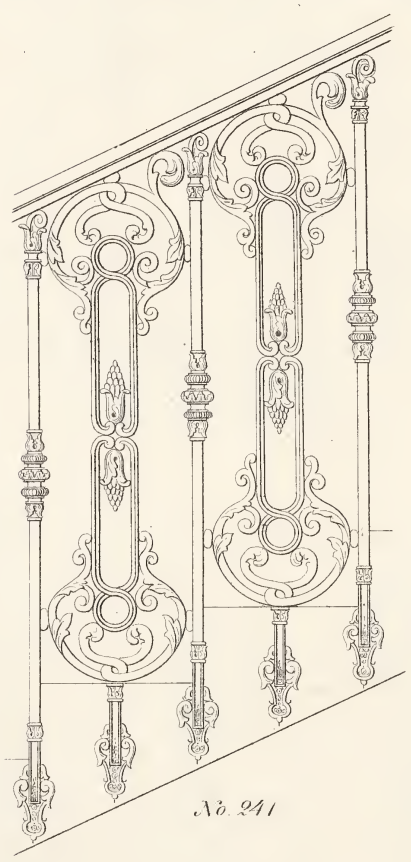

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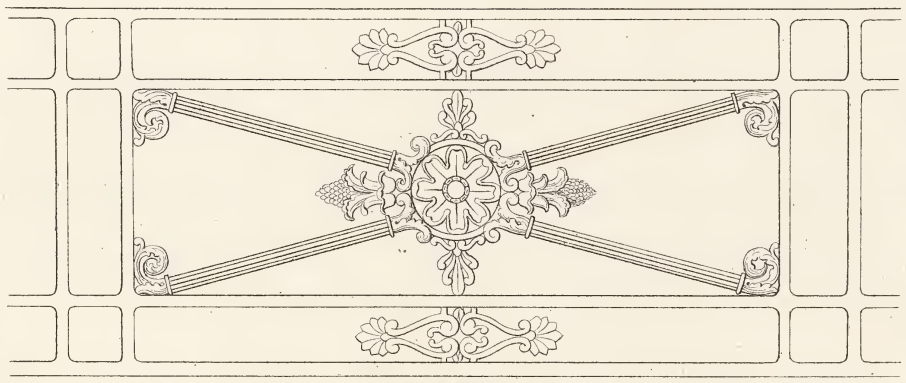

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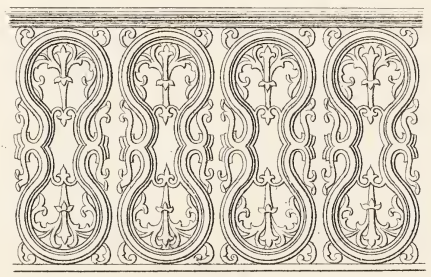

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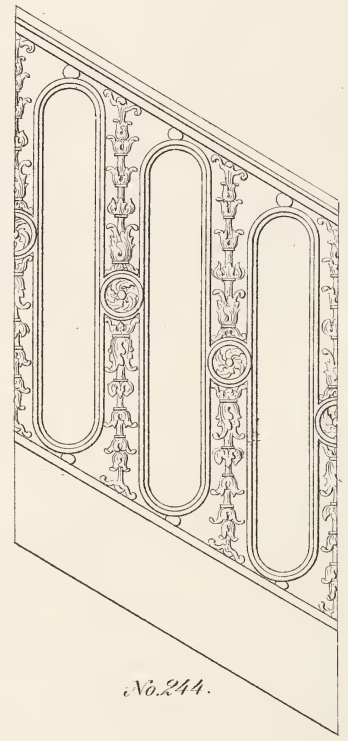
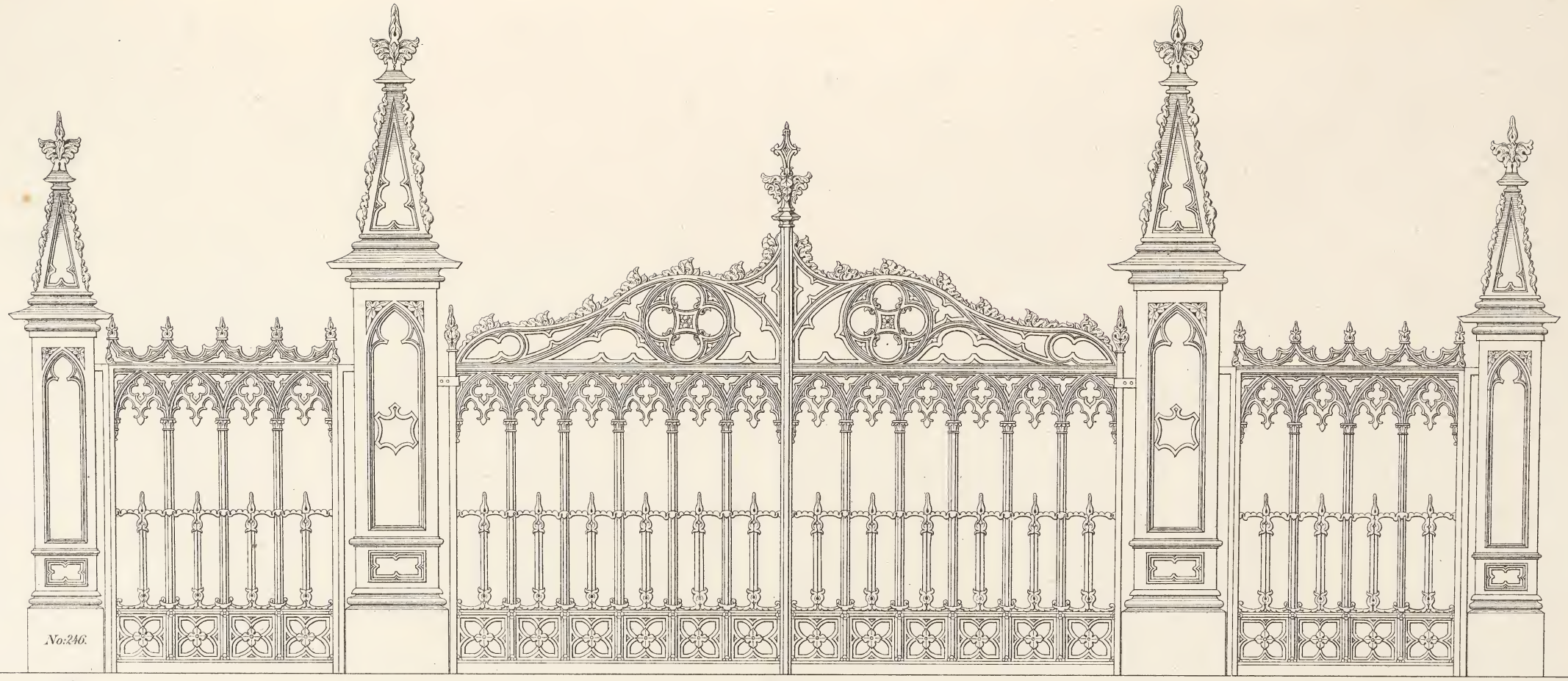


No. 244.

Lith of Sarony, Major & Knapp 449 Broadway NY

ARCHITECTURAL IRON WORKS.-NEW YORK.



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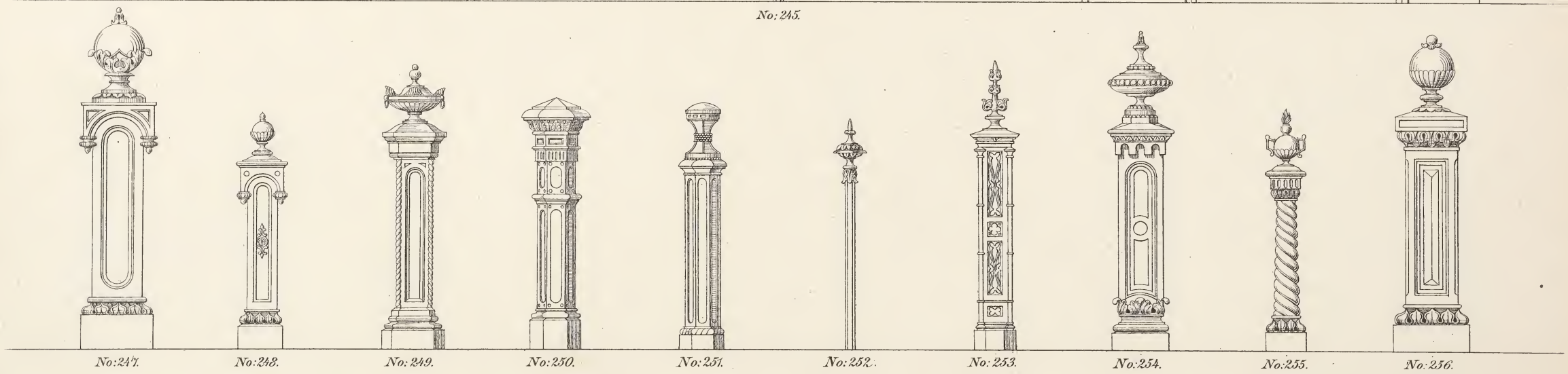
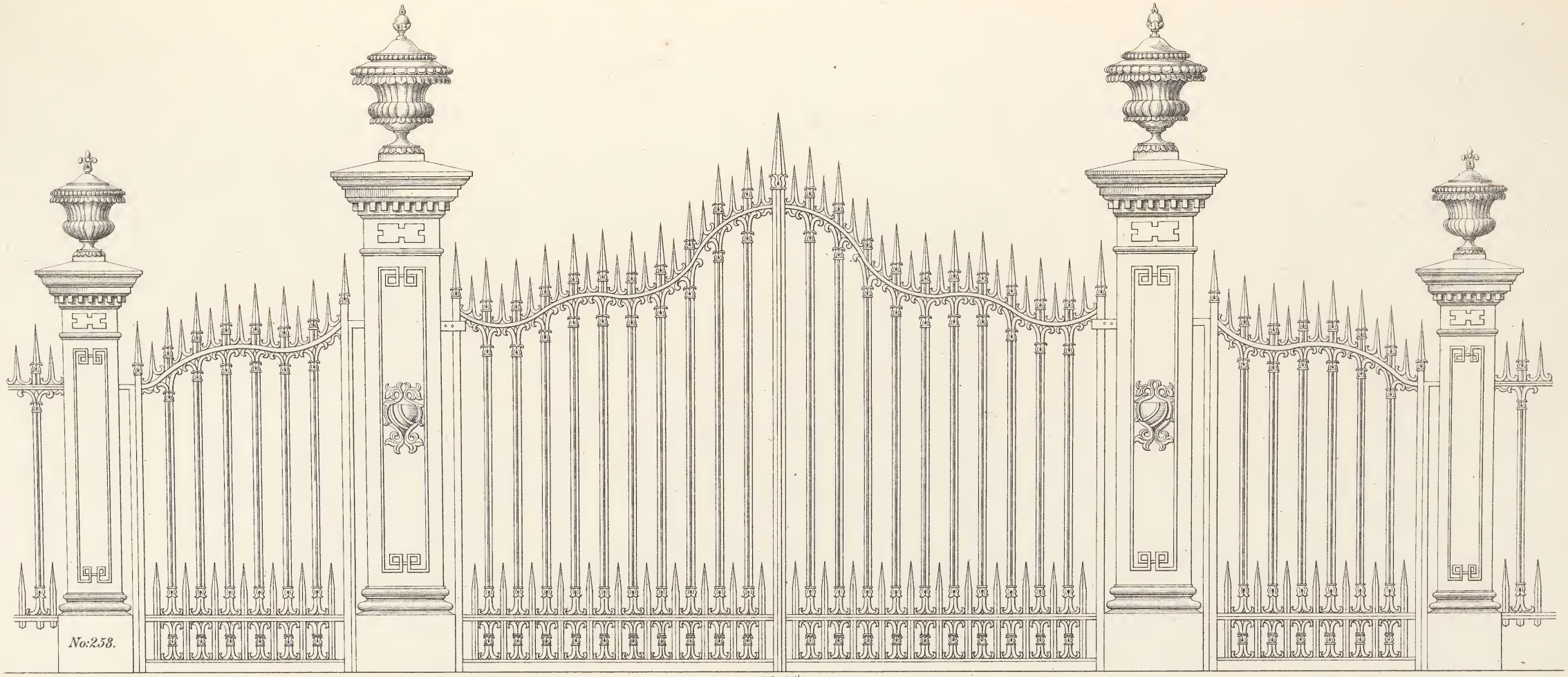
No: 245.



No: 247. *No: 248.* *No: 249.* *No: 250.* *No: 251.* *No: 252.* *No: 253.* *No: 254.* *No: 255.* *No: 256.*

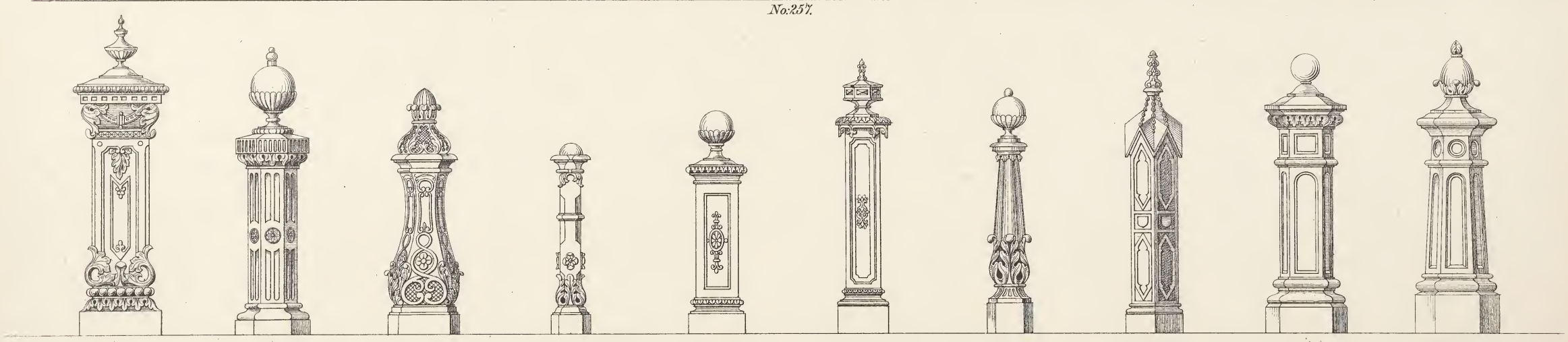
Lith. of Sarony, Major & Knapp, 449 Bdway, N.Y.

ARCHITECTURAL IRON WORKS,—NEW-YORK.



No:258.

No:257.



No:259. No:260. No:261. No:262. No:263. No:264. No:265. No:266. No:267. No:268.

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Plate C.

No:105.

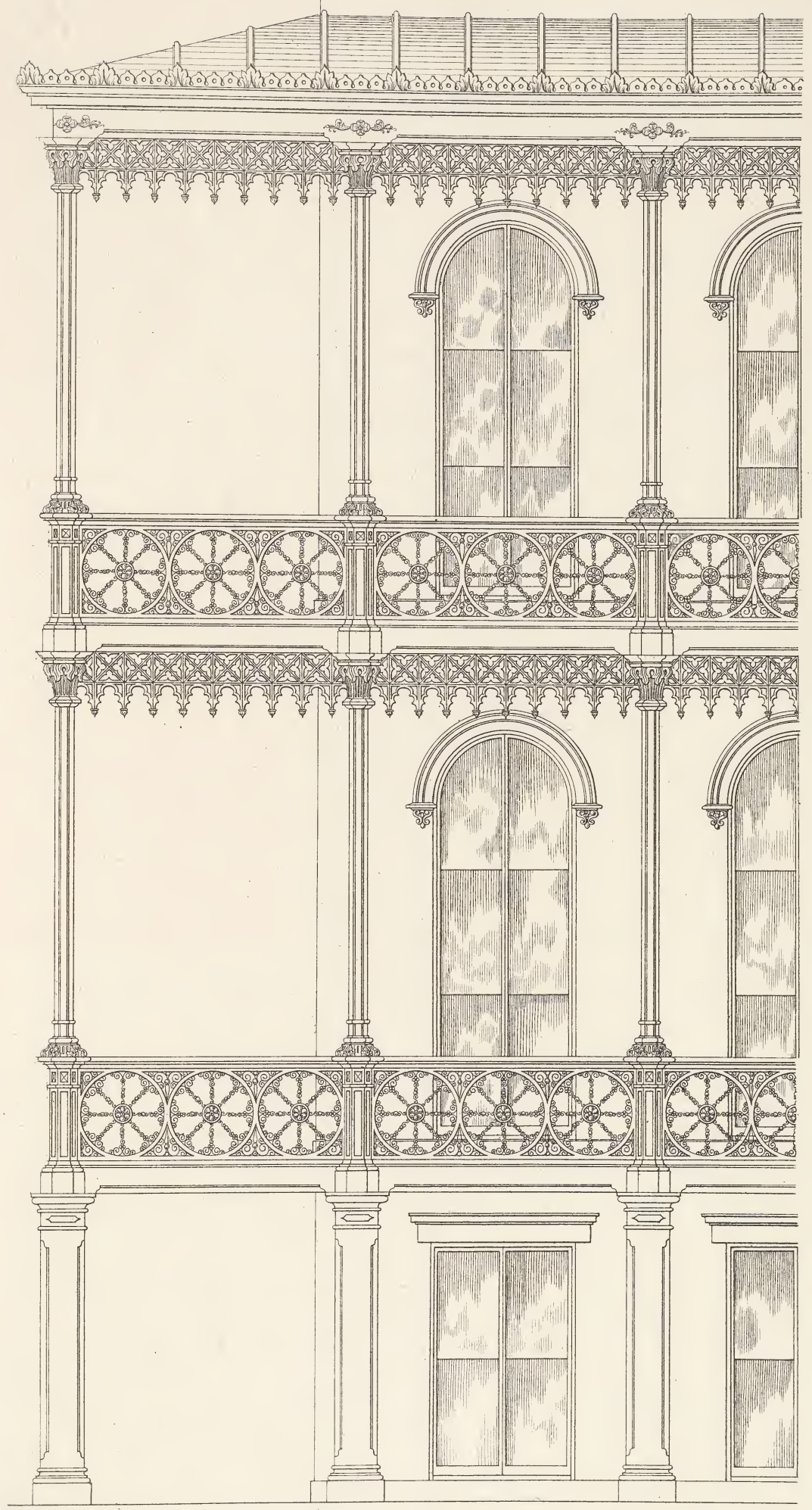

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Plate CI.

No: 162.

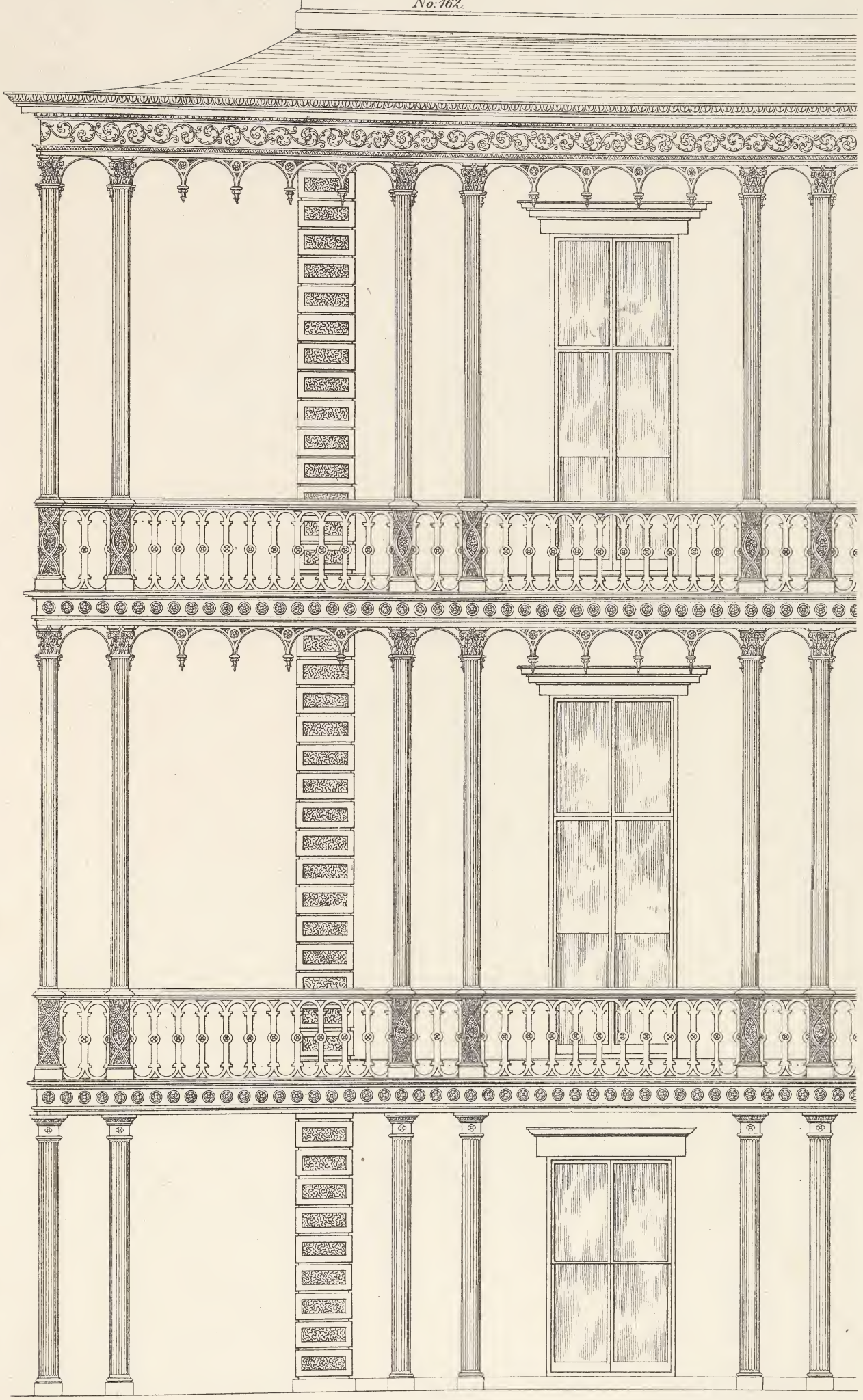

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Plate CII.

Nº 75.

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